

## 301K 直通球阀 Ball Valves

## 概 要

301K 系列是一种直通球阀，其球体只需绕轴 1/4 圈，就能实现全开至全闭或全闭至全开动作。

该球阀具有极优的切断性能，当全开时，其流路和管路内径基本相同，流体压力损失极小，因此最适合于各种液体、气体、料浆类等液体的切断控制。

## GENERAL

This 301K series provides ball valves with a special inner valve which can be fully opened or closed by simply causing the stem to make a 1/4 turn.

The offtake from a ball valve, when totally opened, has the same bore as the pipeline and its fluid resistance is negligible. For this reason, this automatic valve is best suited to on-off service, controlling various types of liquid, gas and slurry.

## 标准规格 STANDARD SPECIFICATION

## 本体部 BODY

形 式 Type	浮动球型和固定球型 Floating and Trunnion
阀 体 尺 寸 Body size	1/2"~24" (15A~600A 即 DN15~DN600)
阀内件材质 Trim materials	标准材质组合及使用温度·压力范围，请参见表 1 及图 1。
阀内件处理 Trim treatment	See Table 1& Fig.1 for hardening treatment and operating pressure-temperature.
公 称 压 力 Body ratings	L 级阀体 / L Class Body : JIS 10K, ANSI Class 150, PN 16*① 浮动球型 / Ball size for Floating type : 1/2"~8" 固定球型 / Ball size for Trunnion type : 10"~24" M 级阀体 / M Class Body : JIS 20K, ANSI Class 300, PN 40*① 浮动球型 / Ball size for Floating type : 1/2"~6" 固定球型 / Ball size for Trunnion type : 8"~24" H 级阀体 / H Class Body : JIS 30K, 40K, ANSI Class 600, PN 63, PN100*① 浮动球型 / Ball size for Floating type : 1/2"~3" 固定球型 / Ball size for Trunnion type : 4"~24"
连 接 方 式 Body connections	法兰型 (RF、凹凸式) Flanged (RF、MFM)
法 兰 距 Face to Face dimension	请参见第 19~29 页。 See page 19~29.
阀 体 及 上 阀 盖 材 质 Body & Bonnet Material	SCPH2/WCB, SCPL1/LCB, SCPL21/LC2, SCPL31/LC3, SCS13A/CF8, SCS14A/CF8M, and other alloy steels.
上 阀 盖 形 式 Bonnet type	标准型 Standard type : -20~+250℃ 加长型 Long-Extension type : -196~-20℃ 蒸汽夹套型 Steam jacketed type 但要注意各种材质的使用温度·压力范围。 Note : The allowable operating pressure-temperature limitation for each material.
填 料 Packing	强化聚四氟乙烯、柔性石墨。 使用温度·压力范围，请参见图 2。 R. TFE and Grafoil. See Fig. 2 for selection.
垫 圈 Gasket	聚四氟乙烯、柔性石墨。 使用温度·压力范围，请参见图 3。 PTFE and Grafoil. See Fig. 3 for selection.
表 面 涂 层 Painting color	银灰色 (环氧树脂)。但是阀体材质为不锈钢时，本体部不加涂层。 Munsell N-6 (Epoxy resin group) is standard. In the case of stainless steel body, no painting is standard.

\*① PN16 表示 JB/T79 (或 HG20592) PN1.6MPa; PN40, 63, 100 表示 JB/T79 (或 HG20592) PN4.0, 6.3, 10MPa。

**执行机构 ACTUATOR**

规格 Specification	型号 Type	气缸式 Pneumatic cylinder type	
		6300RC, 6500RA, 7300RB	
		单动作型 Spring return type	双动作型 Double acting type
用途 Purpose		开关 ON-OFF	
供气压力 Air supply		300, 400, 500 kPa G	300~500 kPa G
接口 Connection		空气配管: 请参照 19~26 页。 Air piping : See pages 19~26.	
回转角度 Angle rotation		90 deg	
正作用 Direct action		气压增加阀闭	Air to valve shut
反作用 Reverse action		气压增加阀开	Air to valve open
允许环境温度 Ambient Temp.		6300RC : -40~+80°C; 6500RA, 7300RB : -20~+60°C	
表面涂层色 Painting		6300RC : 气缸 Cylinder.....Alodur (Special hard anodized) : Gray 气缸盖 End cap.....Chromatized + Polyester coated : Gray 6500RA : 银色环氧树脂 Munsell : N-6 7300RB : 银色环氧树脂 Munsell : N-6	
选购设备 Option		过滤减压阀、电磁阀、限位开关、调速器、锁止阀、限位件、手动操作机构。 Air-set, Solenoid valve, Limit switch, Position transmitter, Lock valve, Speed controller, Rotation stopper, Manual handle, etc.	

规格 Specification	型号 Type	电动式 Electric Motor Type	
		3400RA	
		交流可逆电机 AC Motor	
用途 Purpose		开关 On-off	
供给电压 Power supply		220V 50/60Hz	
输入信号 Input signal		正反切换接点 Change over contact	
电源接口 Wiring conduit		请参照 27~29 页。 See pages 27~29.	
回转角度 Angle rotation		90 deg	
动作 Action		阀开、阀闭、停止 Manual selection Valve open , close, stop	
允许环境温度 Ambient Temp.		-10~+60°C	
标准涂层色 Painting		S 型 P4417 (蓝色) Metallic blue	
选购设备 Option		检测开度微动开关、开度发送器 (电位器)、内置式加热器, 手动操作机构, 接线盒 (尺寸 D1 和 D2 系列除外), 耐压防爆 (仅用于尺寸 B 系列) Micro switch, Potentiometer, Space heater, Manual handle, Junction box (Available except for Casing D1 & D2), Explosion proof (Available for Casing size B only)	

**特殊规格 (有償) OPTIONAL SPECIAL SPECIFICATIONS ( additional cost is required)**

本体部特殊检查 Special testing for Body	材料检查 {液体渗透探伤检查 (PT)、放射线检查 (RT)}、流量特性检查、低温试验、蒸汽试验 Material certificate, Liquid penetrant testing, Radiographic testing, Flow characteristic testing, Low temperature testing, Steam testing.
本体部特殊清洗 Special cleaning for Body	完全禁油、除水处理 Oxygen clean, Oil-free, Water-free
本体部及执行机构特殊规格 Special specification for Body and Actuator	防砂、防尘型、防盐腐蚀型、寒冷地区用、热带地区用、无铜处理、特殊空气配管及特殊气接头、真空工作条件用、接触大气部分的螺栓、螺母采用不锈钢、指定涂层色 Sand and Dust proof, Salty environment proof, Cold area proof, Tropical area proof Copper-free alloy, Special piping and fitting, Vacuum service proof, SUS bolt and nut for exposed parts, Non-standard painting.
认证 Authorization	获得高压气体认定法的认定 Japanese government authorization for high pressure gas.

表 1. 阀体、阀内件材质组合及使用温度范围·阀座允许泄漏量

Table 1. BODY/TRIM STANDARD MATERIAL COMBINATION, OPERATING TEMPERATURE AND SEAT LEAKAGE.

密封环的温度、压力范围请参见第 4 页图 1.

Seal ring material vs Operating Temperature/pressure rating: See page 4, Fig. 1.

- P.TFE : 纯聚四氟乙烯 Pure Teflon
- R.TFE(F) : 二硫化钼强化聚四氟乙烯 Reinforced Teflon MoS<sub>2</sub> filled
- R.TFE(C) : 碳纤维强化聚四氟乙烯 Reinforced Teflon Carbonfiber filled
- HT : 热处理 Heat Treatment
- Hcr : 镀硬铬 Chrome planted

表 1-1 L/M 级阀体

Table 1-1 L/M BODY

表 1-1A 浮动球型 公称通径: L 级阀体 DN15~DN200; M 级阀体 DN65~DN150

Table 1-1A Floating type BODY SIZE: L Class Body 1/2"~8"; M Class Body 1/2"~6"

阀体材质	Body material	SCPH2/A216-WCB, SCS13A/A351-CF8, SCS14A/A351-CF8M		
球体 Ball	材质 Material	SUS316		
	处理 Treatment	抛光 Buffing		
阀杆 Stem	材质 Material	SUS316	SUS630	
	处理 Treatment		HT	
轴承 Bearing	材质 Material	SUS316		
	处理 Treatment	Hcr		
密封环 Seal ring	形式 Type	T型 T type	F型 F type	C型 C type
	材质 Material	P.TFE	R.TFE(F)	R.TFE(C)
使用温度 Operating temperature °C	SCPH2/WCB body	-5~+200	-5~+230	-5~+250
	SCS13A/A351-CF8	-20~+200	-20~+230	-20~+250
	SCS14A/A351-			
阀座允许泄漏量	Seat Leakage	完全切断无泄漏 Tight shut off		

表 1-1B 固定球型 公称通径: L 级阀体 DN250~DN600; M 级阀体 DN200~DN600

Table 1-1B Trunnion type BODY SIZE: L Class Body 10"~24"; M Class Body 8"~24"

阀体材质	Body material	SCPH2/A216-WCB, SCS13A/A351-CF8, SCS14A/A351-CF8M		
球体 Ball	材质 Material	SUS316		
	处理 Treatment	抛光 Buffing		
阀杆 Stem	材质 Material	SUS316	SUS630	
	处理 Treatment		HT	
轴承 Bearing	材质 Material	SUS316		
	处理 Treatment	Hcr		
密封环 Seal ring	形式 Type	F型 F type	C型 C type	
	材质 Material	R.TFE(F)	R.TFE(C)	
垫环 Back ring	材质 Material	VITON		
使用温度 Operating temperature °C	SCPH2/WCB body	-5~+170		
	SCS13A/A351-CF8	-10~+170		
	SCS14A/A351-			
阀座允许泄漏量	Seat Leakage	完全切断无泄漏 Tight shut off		

表 1-2 H 级阀体 公称通径：DN15~DN600

Table 1-2 H Class BODY BODY SIZE: 1/2"~24"

阀体材质	Body material	SCPH2/A216-WCB, SCS13A/A351-CF8, SCS14A/A351-CF8M	
球体	材质 Material	SUS316	
Ball	处理 Treatment	抛光 Buffing	
阀杆	材质 Material	SUS316	SUS630
Stem	处理 Treatment	HT	
轴承	材质 Material	SUS316	
Bearing	处理 Treatment	Hcr	
密封环	形式 Type	C型 C type	
Seal ring	材质 Material	R.TFE(C)	
碟形弹簧	材质 Material	SUS316	
Belleville Spring			
使用温度	SCPH2/WCB body	-5~+250	
Operating temperature °C	SCS13A/A351-CF8	-20~+250	
	SCS14A/A351-		
阀座允许泄漏量	Seat Leakage	完全切断无泄漏 Tight shut off	

表 2 阀体材质的使用温度·压力范围

Table 2 BODY MATERIAL/OPERATING PRESSURE-TEMPERATURE RATING

表 2-1 Table 2-1 ANSI

UNIT : MPa G

温度 Temp. °C	Class 150						Class 300						Class 600					
	SCPL1 LCB	SCPH2 WCB	SCPH21 WC6	SCPH61 C5	SCS13A CF8	SCS14A CF8M	SCPL1 LCB	SCPH2 WCB	SCPH21 WC6	SCPH61 C5	SCS13A CF8	SCS14A CF8M	SCPL1 LCB	SCPH2 WCB	SCPH21 WC6	SCPH61 C5	SCS13A CF8	SCS14A CF8M
-196~38	-	-	-	-	1.90	1.90	-	-	-	-	4.95	4.95	-	-	-	-	9.91	9.92
-45~38	1.84	-	-	-	1.90	1.90	4.78	-	-	-	4.95	4.95	9.57	-	-	-	9.91	9.92
-5~38	1.84	1.96	1.99	1.99	1.90	1.90	4.78	5.10	5.16	5.16	4.95	4.95	9.57	10.20	10.32	10.32	9.91	9.92
50	1.81	1.92	1.92	1.92	1.84	1.84	4.72	5.00	5.10	5.16	4.77	4.80	9.46	10.01	10.22	10.32	9.56	9.62
100	1.72	1.76	1.76	1.76	1.56	1.61	4.51	4.63	4.88	5.14	4.08	4.21	9.02	9.27	9.74	10.29	8.17	8.43
150	1.57	1.57	1.57	1.57	1.39	1.47	4.40	4.51	4.63	5.01	3.62	3.85	8.78	9.04	9.26	10.03	7.26	7.69
200	1.40	1.40	1.40	1.40	1.25	1.37	4.26	4.38	4.54	4.88	3.27	3.56	8.54	8.75	9.09	9.75	6.54	7.12
250	1.20	1.20	1.20	1.20	1.16	1.20	4.05	4.16	4.44	4.62	3.04	3.34	8.11	8.33	8.88	9.26	6.10	6.67
300	1.01	1.01	1.01	1.01	1.01	1.01	3.76	3.87	4.23	4.23	2.91	3.15	7.54	7.74	8.48	8.48	5.80	6.32
350	0.84	0.84	0.84	0.84	0.84	0.84	3.59	3.69	4.01	4.01	2.81	3.03	7.18	7.38	8.04	8.04	5.60	6.07
375		0.73	0.73	0.73	0.73	0.73		3.64	3.88	3.88	2.77	2.96		7.28	7.75	7.75	5.54	5.93
400		0.64	0.64	0.64	0.64	0.64		3.44	3.65	3.65	2.74	2.91		6.89	7.31	7.31	5.48	5.81
425		0.55	0.55	0.55	0.55	0.55		2.88	3.50	3.44	2.71	2.87		5.74	7.01	6.91	5.42	5.72
450		0.47	0.47	0.47	0.47	0.47		1.99	3.38	3.08	2.68	2.81		4.00	6.75	6.17	5.37	5.61
475		0.37	0.37	0.37	0.37	0.37		1.35	3.16	2.58	2.65	2.73		2.70	6.32	5.17	5.30	5.46
500		0.28	0.28	0.28	0.28	0.28		0.88	2.77	2.02	2.60	2.67		1.75	5.55	4.04	5.20	5.37
525		0.18	0.18	0.18	0.18	0.18		0.51	2.02	1.53	2.19	2.57		1.03	4.04	3.07	4.77	5.15
538		0.13	0.15	0.15	0.15	0.15		0.34	1.63	1.34	2.18	2.53		0.72	3.26	2.69	4.55	5.06

表 2-2 Table 2-2 JIS

UNIT : MPa G

温度 Temp. °C	10K	20K	30K		40K	
	SCPH2	SCPH2	SCPH2	SCHP21	SCPH2	SCHP21
-5~120	1.37	3.33	4.49	4.99	6.66	6.66
~220	1.17	3.03	4.50	4.50	6.07	6.07
~300	0.98	2.84	4.21	4.21	5.58	5.58
~350		2.54	3.82	3.82	5.09	5.09
~400		2.25	3.33	3.72	4.50	4.99
~425		1.96	2.94	3.52	3.92	4.70
~450						4.41
~475						4.11
~490						3.92
~500						3.72
~510						3.52

表 2-3 Table 2-3 JB / T79-94 或 HG20596-97 UNIT : MPa G

温度 Temp. °C	PN16	PN40	PN63	PN100	温度 Temp. °C	PN16	PN40	PN63	PN100
	ZG230-450					ZG0Cr18Ni9			
-5~200	1.60	4.00	6.30	10.00	-45~200	1.60	4.00	6.30	10.00
~250	1.40	3.50	5.40	9.00	~300	1.40	3.50	5.40	9.00
~300	1.20	3.00	4.80	7.50	~400	1.20	3.00	4.80	7.50
~350	1.1.	2.60	4.00	6.60	~480	1.10	2.60	4.00	6.60
~400	0.90	2.30	3.70	5.80	~520	0.90	2.30	3.70	5.80
~425	0.80	2.00	3.20	5.00	~560	0.80	2.00	3.20	5.00
~435	0.70	1.80	2.80	4.50					
~445	0.62	1.60	2.50	4.20					
~455	0.57	1.40	2.30	3.60					

图 1 密封环使用温度·压力范围

Fig.1 SEAL RING OPRATING TEMPERATURE-PRESSURE RATINGS

图 1-1 浮动球型：T 型密封环 (L/M 级)

Fig. 1-1 FLOATING TYPE : T TYPE (L/M Class)

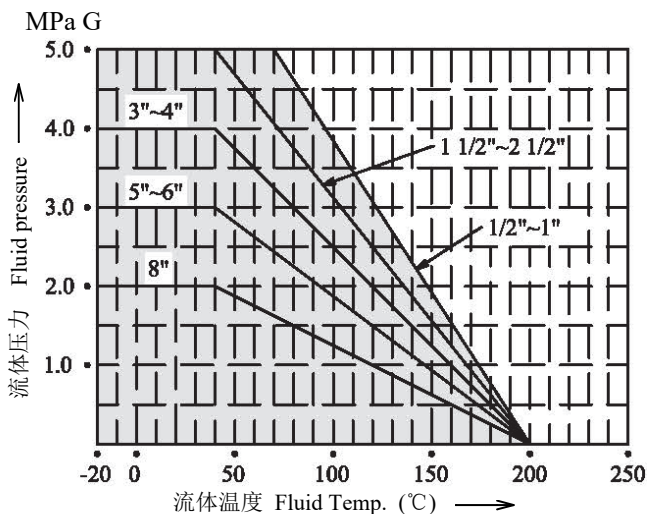


图 1-2 浮动球型：F 型密封环 (L/M 级)

Fig.1-2 FLOATING TYPE : F TYPE (L/M Class)

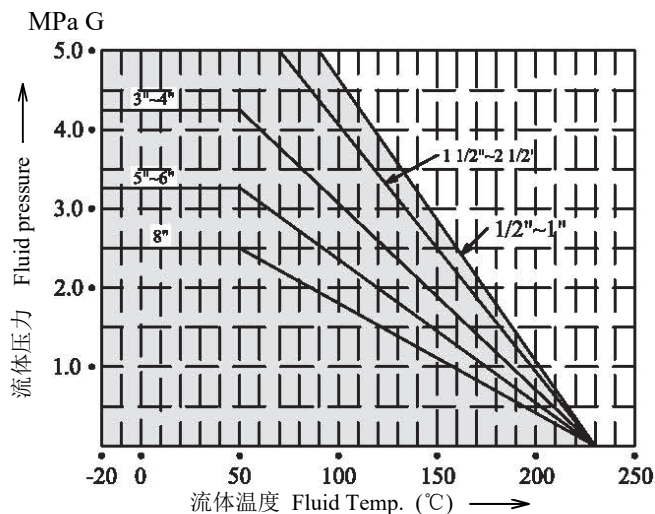


图 1-3 浮动球型：C 型密封环 (L/M 级)

Fig. 1-3 FLOATING TYPE : C TYPE (L/M Class)

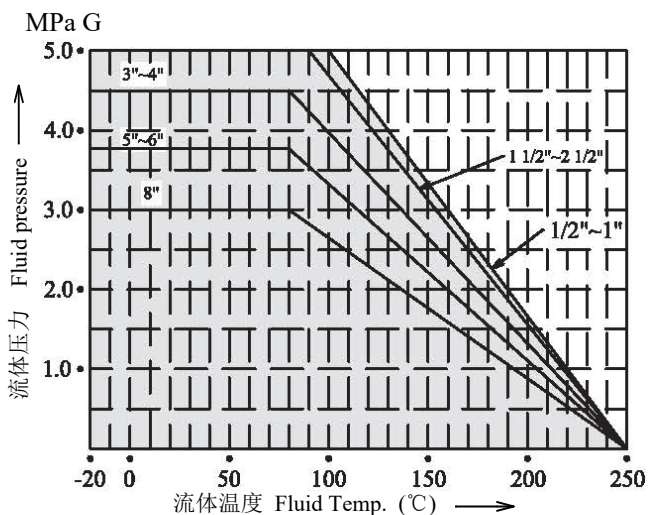


图 1-4 固定球型：F型、C 型密封环/VITON (L/M 级)

Fig.1-4 TRUNNION TYPE : F & C TYPE/VITON (L/M Class)

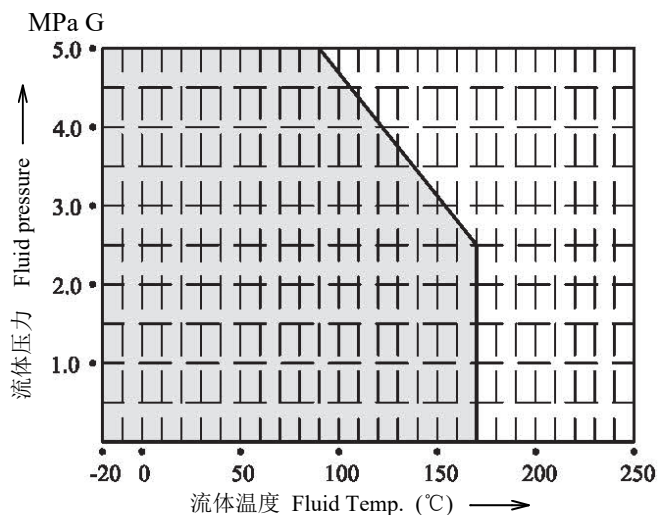


图 1-5 C 型密封环 (H 级)

Fig. 1-5 C TYPE (H Class)

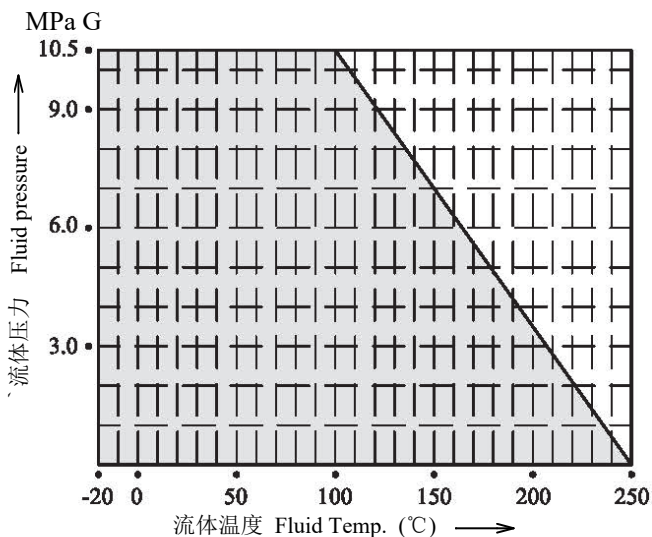


图2 填料使用温度·压力范围

Fig. 2 GLAND PACKING TEMPERATURE-PRESSURE RATINGS

图 2-1 聚四氟乙烯碳纤维 (P6528+P4519)

聚四氟乙烯纤维+纯聚四氟乙烯 (P4525+P4390W2) 禁油用

Fig. 2-1 TFE CARBON

TFE FIBER+PURE TFE

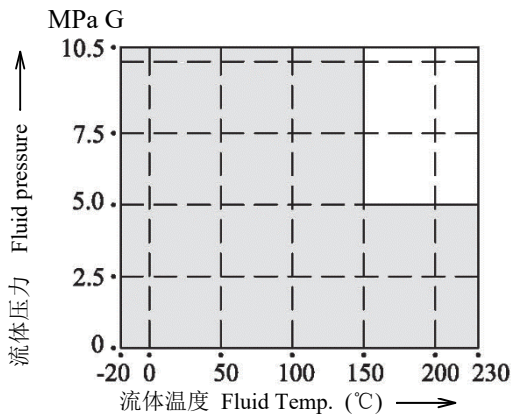


图 2-2 柔性石墨 (P6610CL+P6710CL)

Fig. 2-2 GRAFOIL

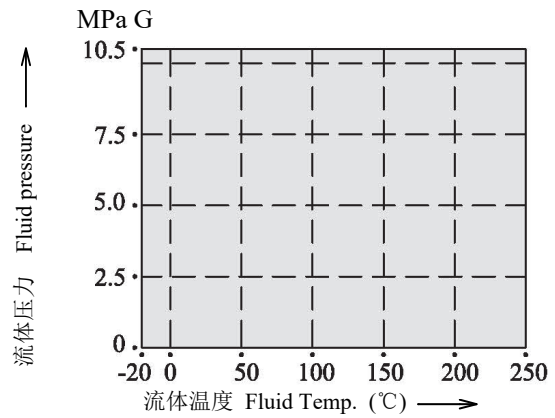


图3 垫圈使用温度·压力范围

Fig. 3 GASGET TEMPERATURE-PRESSURE RATINGS

图 3-1 聚四氟乙烯 (VAL.7020)

Fig. 3-1 TFE

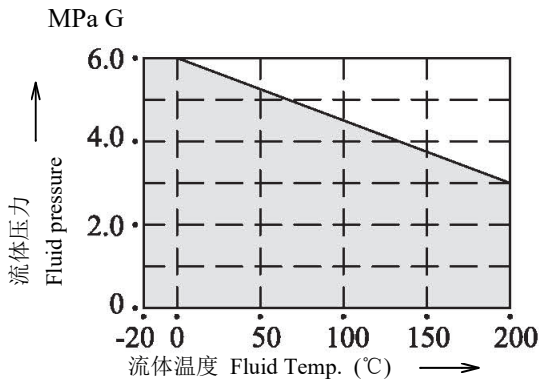


图 3-2 柔性石墨(P6633)

Fig. 3-2 GRAFOIL

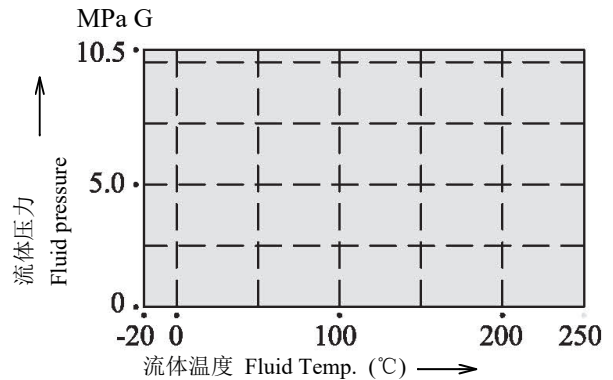


表3 额定 Cv

Table 3 Cv VALUE

公称通径 Valve size Inch(mm)	公称压力 Body rating		公称通径 Valve size Inch(mm)	公称压力 Body rating	
	ANSI 150 ANSI 300	ANSI 600		ANSI 150 ANSI 300	ANSI 600
1/2 (15)	25	22	6 (150)	2600	4475
3/4 (20)	45	40	8 (200)	4200	8615
1 (25)	85	65	10 (250)	6000	13110
1.5 (40)	200	210	12 (300)	8600	21860
2 (50)	320	345	14 (350)	28000	28000
2.5 (65)	450	645	16 (400)	37200	37200
3 (80)	600	985	18 (450)	49000	49000
4 (100)	1100	1755	20 (500)	59000	59000
5 (125)	1700	2925	24 (600)	92000	92000

图 4. 本体部构造 Fig. 4 BODY SECTION VIEW

L/M 级阀体 L/M CLASS BODY

图 4-1. 浮动球型 Fig. 4-1 FLOATING TYPE

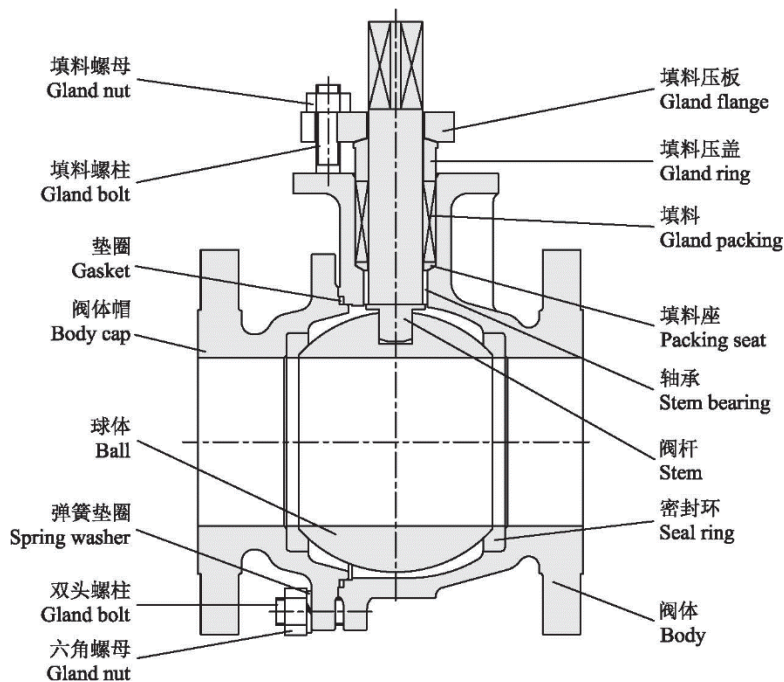


图 4-2. 固定球型 Fig. 4-2 TRUNNION TYPE

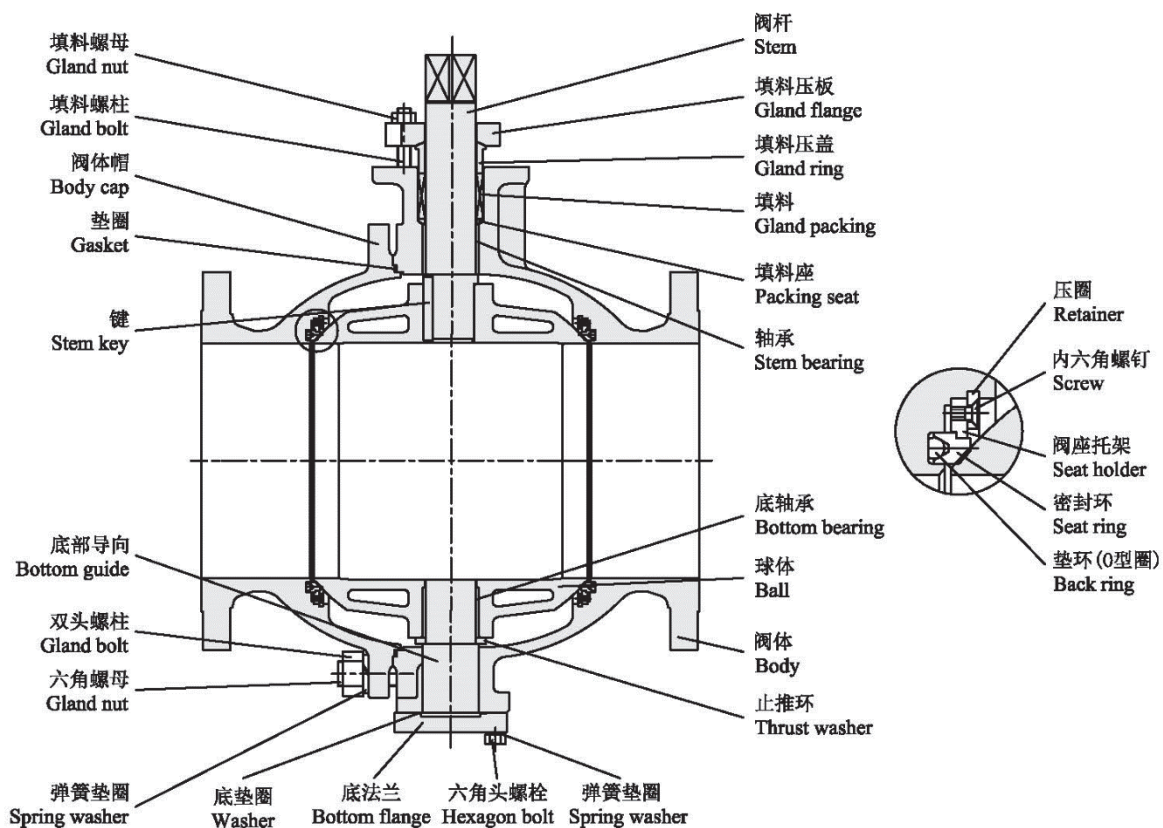




表 4-1B 密封环: T 型, F 型 / 7300RB、6500RA  
 Table 4-1B Seal ring: T type, F type / 7300RB, 6500RA

执行机构 尺寸及型 号 Actuator	阀杆材质 Stem material	气源压力 Air SUP. kPa	强化聚四氟乙烯 Teflon asbestos (P6528+P4519)												柔性石墨 Grafoil (P6610CL+P6710CL)															
			浮动球型 Floating type										固定球型		浮动球型 Floating type										固定球型					
			1/2"	3/4"	1"	1.5"	2"	2.5"	3"	4"	5"	6"	8"	8"	10"	12"	1/2"	3/4"	1"	1.5"	2"	2.5"	3"	4"	5"	6"	8"	8"	10"	12"
7317RB 170×2	SUS316	400					5.00	3.78	2.87	1.35	0.78									5.00	3.36	2.54	1.06	0.61						
		500					5.00	3.78	3.66	1.74	1.01									5.00	3.36	3.32	1.45	0.84						
	SUS630	400					5.00	4.30	2.87	1.35	0.78									5.00	4.30	2.54	1.06	0.61						
		500					5.00	4.30	3.66	1.74	1.01									5.00	4.30	3.32	1.45	0.84						
7323RB 235×2	SUS316	400								3.92	3.30	2.15	0.97	2.27	1.21	0.67						3.58	3.30	1.98	0.88	2.07	1.06	0.51		
		500								3.92	3.30	2.15	1.23	2.88	1.54	0.87						3.58	3.30	1.98	1.14	2.68	1.39	0.71		
	SUS630	400									4.30	3.30	2.34	0.97	2.27	1.21	0.67					4.30	3.30	2.17	0.88	2.07	1.06	0.51		
		500									4.30	3.30	2.96	1.23	2.88	1.54	0.87					4.30	3.30	2.79	1.14	2.68	1.39	0.71		
7328RB 280×2	SUS316	400										2.15	1.30	3.04	2.19	1.26									1.98	1.21	2.84	2.03	1.10	
		500										2.15	1.30	3.04	2.47	1.61									1.98	1.21	2.84	2.32	1.45	
	SUS630	400											3.30	1.73	4.04	2.19	1.26								3.30	1.65	3.84	2.03	1.10	
		500											3.30	2.00	5.00	2.76	1.61								3.30	2.00	4.88	2.61	1.45	
7337RB 375×2	SUS316	400											1.30	3.04	2.47	2.70									1.21	2.84	2.32	2.54		
		500											1.30	3.04	2.47	2.70									1.21	2.84	2.32	2.54		
	SUS630	400												2.00	5.00	5.00	3.15								2.00	5.00	5.00	2.99		
		500													2.00	5.00	5.00	3.97							2.00	5.00	5.00	3.81		
6517RA 170×2	SUS316	400										3.30	2.15	1.03	2.43	1.30	0.72							3.30	1.98	0.95	2.23	1.15	0.56	
		500										3.30	2.15	1.30	3.04	1.68	0.95							3.30	1.98	1.21	2.84	1.53	0.79	
	SUS630	400											3.30	2.51	1.03	2.43	1.30	0.72							3.30	2.34	0.95	2.23	1.15	0.56
		500											3.30	3.22	1.33	3.12	1.68	0.95							3.30	3.04	1.25	2.92	1.53	0.79
6520RA 200×2	SUS316	400											2.15	1.30	3.04	2.31	1.33								1.98	1.21	2.84	2.16	1.17	
		500											2.15	1.30	3.04	2.47	1.75								1.98	1.21	2.84	2.32	1.59	
	SUS630	400												3.30	1.83	4.27	2.31	1.33							3.30	1.75	4.07	2.16	1.17	
		500												3.30	2.00	5.00	3.00	1.75							3.30	2.00	5.00	2.84	1.59	
6528RA 280×2	SUS316	400												1.30	3.04	2.47	2.70									1.21	2.84	2.32	2.54	
		500												1.30	3.04	2.47	2.70									1.21	2.84	2.32	2.54	
	SUS630	400													2.00	5.00	5.00	3.39								2.00	5.00	5.00	3.23	
		500													2.00	5.00	5.00	4.27								2.00	5.00	5.00	4.11	

\*: 8" L 级阀体为浮动球型, M 级阀体为固定球型。 \*: 8" L class body is floating type, M class body is Trunnion type.

表 4-1C 密封环: C 型 / 6300RC  
Table 4-1C Seal ring: C type / 6300RC

执行机构 尺寸及型 号 Actuator	阀杆材质 Stem material	气源压力 Air SUP. kPa	强化聚四氟乙烯 Teflon asbestos (P6528+P4519)														柔性石墨 Grafoil (P6610CL+P6710CL)																
			浮动球型 Floating type											固定球型			浮动球型 Floating type											固定球型					
			1/2"	3/4"	1"	1.5"	2"	2.5"	3"	4"	5"	6"	8"*	8"*	10"	12"	1/2"	3/4"	1"	1.5"	2"	2.5"	3"	4"	5"	6"	8"*	8"*	10"	12"			
AT101U 63D1RC	SUS316	400	5.00	5.00	3.90												5.00	5.00	2.26														
		500	5.00	5.00	5.00													5.00	5.00	3.53													
	SUS630	400	5.00	5.00	3.90													5.00	5.00	2.26													
		500	5.00	5.00	5.00													5.00	5.00	3.53													
AT201U 63D2RC	SUS316	400	5.00	5.00	5.00	2.24	1.14										5.00	5.00	5.00	1.40	0.68												
		500	5.00	5.00	5.00	2.98	1.54										5.00	5.00	5.00	2.14	1.08												
	SUS630	400	5.00	5.00	5.00	2.24	1.14											5.00	5.00	5.00	1.40	0.68											
		500	5.00	5.00	5.00	2.98	1.54											5.00	5.00	5.00	2.14	1.08											
AT251U 63DARC	SUS316	400				3.93	2.05												3.09	1.60													
		500				5.00	2.68												4.25	2.22													
	SUS630	400				3.93	2.05												3.09	1.60													
		500				5.00	2.68												4.25	2.22													
AT301U 63D3RC	SUS316	400				5.00	3.18	1.19	0.63									5.00	2.72	0.61	0.30												
		500				5.00	4.11	1.61	0.87									5.00	3.65	1.04	0.55												
	SUS630	400				5.00	3.18	1.19	0.63									5.00	2.72	0.61	0.30												
		500				5.00	4.11	1.61	0.87									5.00	3.65	1.04	0.55												
AT351U 63DBRC	SUS316	400				4.97	2.23	1.23											4.52	1.65	0.90												
		500				4.97	2.90	1.61											4.52	2.33	1.28												
	SUS630	400				5.00	2.23	1.23											4.99	1.65	0.90												
		500				5.00	2.90	1.61											5.00	2.33	1.28												
AT401U 63D4RC	SUS316	400					3.01	1.68	0.81										4.52	2.44	1.35	0.54											
		500					3.88	2.17	1.07										4.52	3.30	1.84	0.81											
	SUS630	400					3.01	1.68	0.81										5.00	2.44	1.35	0.54											
		500					3.88	2.17	1.07										5.00	3.30	1.84	0.81											
AT451U 63DCRC	SUS316	400					5.00	2.81	1.41											4.42	2.48	1.15											
		500					5.00	2.90	1.83											4.58	2.57	1.57											
	SUS630	400					5.00	2.81	1.41											4.42	2.48	1.15											
		500					5.00	3.59	1.83											5.00	3.26	1.57											
AT501U 63D5RC	SUS316	400						2.90	1.92	0.89	0.50									4.58	2.57	1.66	0.66	0.37									
		500						2.90	2.47	1.16	0.66									4.58	2.57	2.20	0.93	0.53									
	SUS630	400						3.76	1.92	0.89	0.50									5.00	3.43	1.66	0.66	0.37									
		500						4.50	2.47	1.16	0.66									5.00	4.45	2.20	0.93	0.53									
AT551U 63DDRC	SUS316	400						2.90	2.69	1.27	0.73										2.57	2.43	1.04	0.59									
		500						2.90	3.01	1.63	0.94										2.57	2.74	1.41	0.81									
	SUS630	400						4.50	2.69	1.27	0.73										4.50	2.43	1.04	0.59									
		500						4.50	3.42	1.63	0.94										4.50	3.16	1.41	0.81									
AT601U 63D6RC	SUS316	400							3.01	1.84	1.06	0.42	1.31	0.68								2.74	1.61	0.93	0.35	1.12	0.53						
		500							3.01	2.35	1.36	0.55	1.68	0.88								2.74	2.12	1.23	0.48	1.48	0.73						
	SUS630	400							3.83	1.84	1.06	0.42	1.31	0.68								3.57	1.61	0.93	0.35	1.12	0.53						
		500							4.50	2.35	1.36	0.55	1.68	0.88								4.50	2.12	1.23	0.48	1.48	0.73						
AT651U 63DERC	SUS316	400							3.01	2.83	1.65	0.76	2.30	1.22								2.74	2.60	1.51	0.70	2.11	1.08						
		500							3.01	2.83	1.65	0.98	2.91	1.56								2.74	2.60	1.51	0.91	2.72	1.41						
	SUS630	400							4.50	3.22	1.88	0.76	2.30	1.22								4.50	2.99	1.74	0.70	2.11	1.08						
		500							4.50	3.70	2.38	0.98	2.91	1.56								4.50	3.70	2.25	0.91	2.72	1.41						
AT701U 63D7RC	SUS316	400								2.83	1.65	0.99	2.94	1.83	1.05								2.60	1.51	0.92	2.75	1.69	0.90					
		500								2.83	1.65	0.99	2.94	2.32	1.35								2.60	1.51	0.92	2.75	2.18	1.19					
	SUS630	400								3.70	2.79	1.15	3.41	1.83	1.05								3.70	2.65	1.08	3.21	1.69	0.90					
		500								3.70	3.52	1.46	4.29	2.32	1.35								3.70	3.38	1.39	4.10	2.18	1.19					

\*: 8" L 级阀体为浮动球型, M 级阀体为固定球型。 \*: 8" L class body is floating type, M class body is Trunnion type.













表 5 与标准执行机构组合时的产品重量 (单位: kg)

Table 5 NET WEIGHT OF STANDARD VALVE AND ACTUATOR COMBINED (UNIT: kg)

本表中所列重量, 均为执行机构和本体部的标准产品重量, 不包括附件、手动机构等。

Only standard types are represented. Weights of accessories, a handwheel and the like are not included.

表 5-1 L 级阀体, 全腔型

Table 5-1 L CLASS BODY, FULL BORE TYPE

执行机构 Actuator			公称通径 Valve size (inch)													
型号 Series	动作方式 Function	尺寸 Size & code	1/2"	3/4"	1"	1.5"	2"	2.5"	3"	4"	5"	6"	8"	10"	12"	
6300RC	双动作型 Double acting type	63D0RC	6.5	7	8.5											
		63D1RC			9											
		63D2RC				15.5	20									
		63DARC				17	22									
		63D3RC					23	26	32							
		63D4RC						33	39	54	83					
		63D5RC							48	63	92	122				
		63D6RC								86	115	145	191	304	434	
	63D7RC										191	237	350	480		
	单动作型 Spring return type	63D1RC	7	7.5												
		63D2RC	8.5	9	10.5											
		63DARC			12											
		63D3RC				19.5										
		63D4RC				26	30.5	34.5								
63D5RC						41	45	51								
63D6RC							73	79	92	123						
6500RA	双动作型 Double acting type	6517RA									141	171	217	330	460	
		6520RA												380	510	
		6528RA													650	
	单动作型 Spring return type	6520RA								167	196	226	272	385		
		6528RA									311	341	387	500	630	
		6536RA												700	830	
7300RB	双动作型 Double acting type	7317RB							65	80	109	139	185	298	428	
		7323RB							110	125	154	184	230	343	473	
		7328RB								192	221	251	297	410	540	
		7337RB												530	660	
	单动作型 Spring return type	7317RB						74	80	95						
		7323RB							137	152	181	210				
		7328RB									273	303	349	462	592	
		7337RB								506	551	665	795			
341		RSA	12	12.5	14	19	23.5									
		RSB				24.5	29	33	39	54						
		RSC							67	82	111	141				
		RSD									200	230	277	390	520	

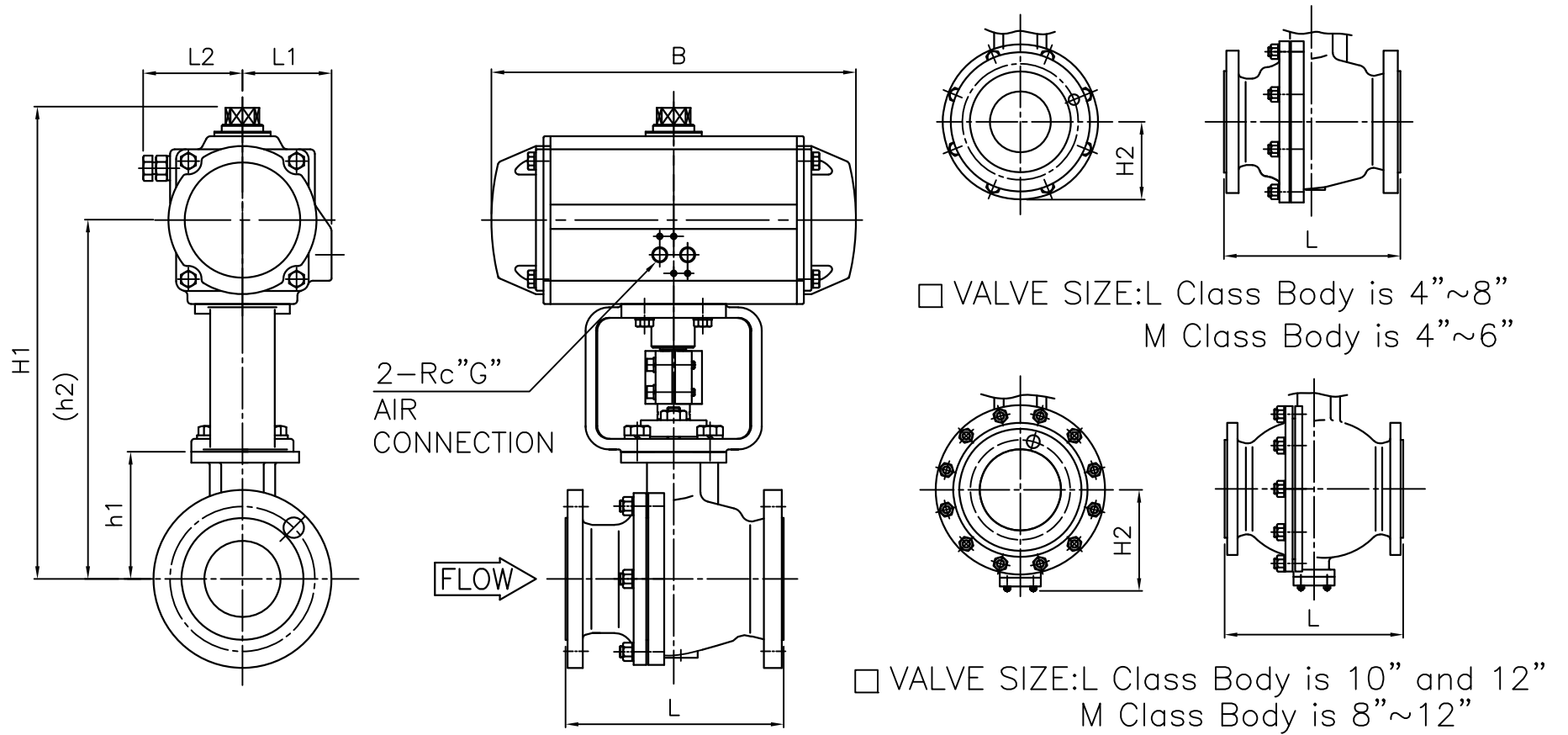
表 5-3 M 级阀体，全腔型

Table 5-3 M CLASS BODY, FULL BORE TYPE

执行机构 Actuator			公称通径 Valve size (inch)													
型号 Series	动作方式 Function	尺寸 Size & code	1/2"	3/4"	1"	1.5"	2"	2.5"	3"	4"	5"	6"	8"	10"	12"	
6300RC	双动作型 Double acting type	63D0RC	7.5	8	10.5											
		63D1RC			12											
		63D2RC				18.5	22									
		63DARC				20	24									
		63D3RC					25	35	43							
		63D4RC						42	50	60	105					
		63D5RC							59	79	114	160				
		63D6RC								102	137	183	214	349	514	
		63D7RC										229	260	395	560	
	单动作型 Spring return type	63D1RC	7.5	8.5												
		63D2RC	9	10	12.5											
		63DARC			14											
		63D3RC				22.5										
		63D4RC				29	32.5	43.5								
		63D5RC					43	54	62							
		63D6RC						82	90	110	145					
63D7RC								146	166	201	247	278	413	578		
6500RA	双动作型 Double acting type	6517RA									163	209	242	375	542	
		6520RA										260	295	425	595	
		6528RA												565	732	
	单动作型 Spring return type	6520RA								183	218	264	297	430		
		6528RA									333	379	412	545	712	
		6536RA												745	912	
7300RB	双动作型 Double acting type	7317RB							76	96	131	177	208	343	508	
		7323RB							121	141	176	222	253	388	553	
		7328RB								208	243	289	320	455	620	
		7337RB												575	740	
	单动作型 Spring return type	7317RB						83	91	111						
		7323RB							147	168	203	249				
		7328RB									295	341	372	507	672	
7337RB										544	575	710	875			
341	RSA	12.5	13.5	16	22	25.5										
	RSB				27.5	31	42	50	70							
	RSC						70	78	98	133	179					
	RSD									223	269	300	435	600		

# BALL VALVE

## 301K Double acting and Spring return cylinder



### DIMENSIONS

UNIT:mm

VALVE SIZE	FACE TO FACE:L			ACTUATOR									
	<input type="checkbox"/> JIS 10k FF <input type="checkbox"/> JIS 10k RF	<input type="checkbox"/> PN1.6 MPa RF ANSI 125# RF <input type="checkbox"/> ANSI 150# RF	<input type="checkbox"/> PN4.0 MPa RF JIS 20k RF <input type="checkbox"/> ANSI 300# RF	h1	H2	h2	H1	Cylinder Size	B	L1	L2	G	CODE NO.
<input type="checkbox"/> 0.5" 15A	110	108	140	60	—	228	295	<input type="checkbox"/> AT101	155	70	50	1/4	63D1RC
						236	310	<input type="checkbox"/> AT201	205	70	60	1/4	63D2RC
<input type="checkbox"/> 0.75" 20A	120	117	152	63	—	231	295	<input type="checkbox"/> AT101	155	70	50	1/4	63D1RC
						239	310	<input type="checkbox"/> AT201	205	70	60	1/4	63D2RC
<input type="checkbox"/> 1" 25A	130	127	165	75	—	243	310	<input type="checkbox"/> AT101	155	70	50	1/4	63D1RC
						251	325	<input type="checkbox"/> AT201	205	70	60	1/4	63D2RC
						258	340	<input type="checkbox"/> AT251	245	75	65	1/4	63DARC
<input type="checkbox"/> 1.5" 40A	165	165	190	85	—	251	325	<input type="checkbox"/> AT201	205	70	60	1/4	63D2RC
						258	340	<input type="checkbox"/> AT251	245	75	65	1/4	63DARC
						264	350	<input type="checkbox"/> AT301	260	80	75	1/4	63D3RC
						299	410	<input type="checkbox"/> AT401	335	100	90	1/4	63D4RC
<input type="checkbox"/> 2" 50A	180	178	216	91	—	257	330	<input type="checkbox"/> AT201	205	70	60	1/4	63D2RC
						264	345	<input type="checkbox"/> AT251	245	75	65	1/4	63DARC
						270	355	<input type="checkbox"/> AT301	260	80	75	1/4	63D3RC
						305	415	<input type="checkbox"/> AT401	335	100	90	1/4	63D4RC
<input type="checkbox"/> 2.5" 65A	190	190	241	120	—	339	470	<input type="checkbox"/> AT501	425	120	110	1/4	63D5RC
						304	390	<input type="checkbox"/> AT301	260	80	75	1/4	63D3RC
						339	450	<input type="checkbox"/> AT401	335	100	90	1/4	63D4RC
						388	520	<input type="checkbox"/> AT501	425	120	110	1/4	63D5RC
<input type="checkbox"/> 3" 80A	200	203	283	130	—	392	565	<input type="checkbox"/> AT601	530	130	140	1/4	63D6RC
						314	400	<input type="checkbox"/> AT301	260	80	75	1/4	63D3RC
						349	460	<input type="checkbox"/> AT401	335	100	90	1/4	63D4RC
						398	530	<input type="checkbox"/> AT501	425	120	110	1/4	63D5RC
<input type="checkbox"/> 4" 100A	230	229	305	160	115	402	575	<input type="checkbox"/> AT601	530	130	140	1/4	63D6RC
						404	515	<input type="checkbox"/> AT401	335	100	90	1/4	63D4RC
						450	580	<input type="checkbox"/> AT501	425	120	110	1/4	63D5RC
						487	660	<input type="checkbox"/> AT601	530	130	140	1/4	63D6RC
<input type="checkbox"/> 5" 125A	300	356	381	185	140	483	615	<input type="checkbox"/> AT501	425	120	110	1/4	63D5RC
						517	690	<input type="checkbox"/> AT601	530	130	140	1/4	63D6RC
<input type="checkbox"/> 6" 150A	340	394	403	200	160	498	630	<input type="checkbox"/> AT501	425	120	110	1/4	63D5RC
						532	705	<input type="checkbox"/> AT601	530	130	140	1/4	63D6RC
<input type="checkbox"/> 8" 200A	450	457	502	250	210	582	755	<input type="checkbox"/> AT601	530	130	140	1/4	63D6RC
<input type="checkbox"/> 10" 250A	533	533	568	315	310	662	835	<input type="checkbox"/> AT601	530	130	140	1/4	63D6RC

NOTE:

DRAWING No.

E-301K-6300RC-W-S-N-1

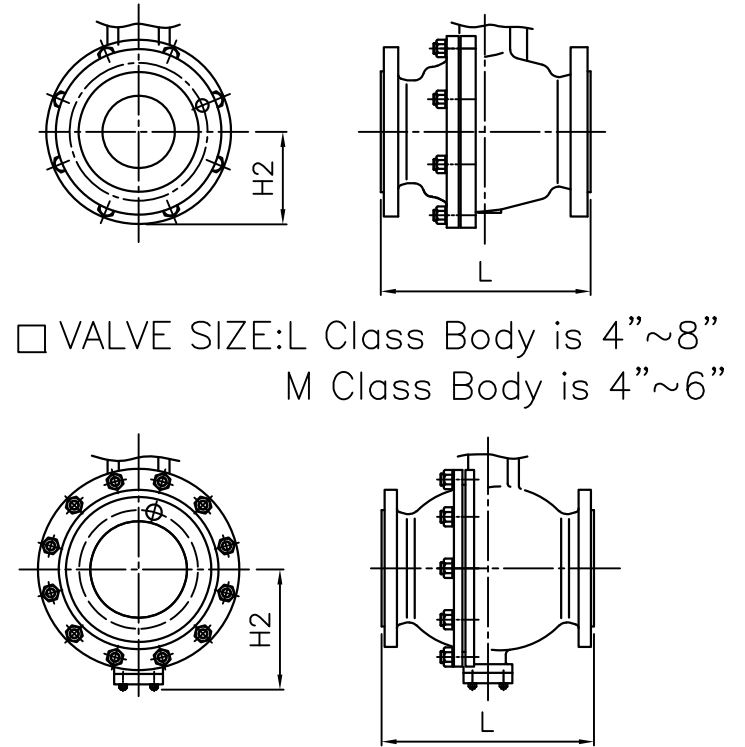
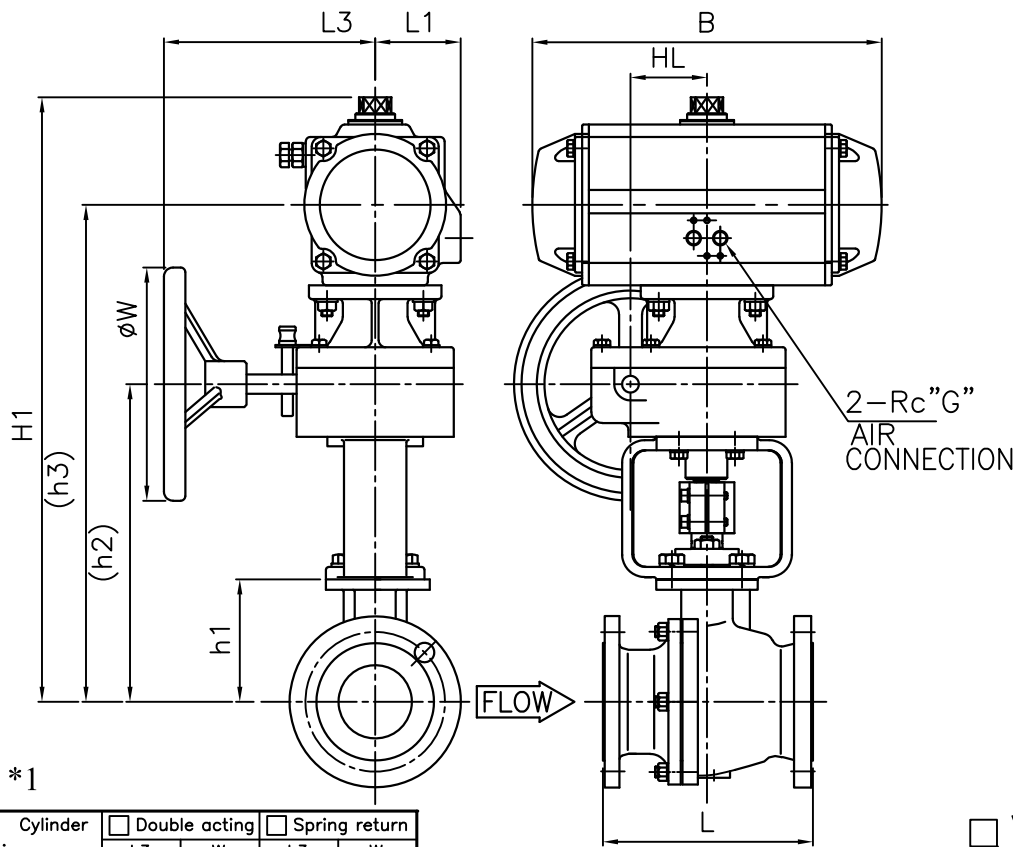
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**KOSO**

# BALL VALVE

## 301K Double acting and Spring return cylinder With side handle



\*1

Cylinder size	Double acting		Spring return	
	L3	W	L3	W
<input type="checkbox"/> AT501U	155	205	155	305
<input type="checkbox"/> AT601U	225	305	235	400

DIMENSIONS

VALVE SIZE:L Class Body is 10" and 12"  
M Class Body is 8"~12"

UNIT:mm

VALVE SIZE	FACE TO FACE:L				ACTUATOR												
	<input type="checkbox"/> JIS 10k FF	<input type="checkbox"/> PN1.6 MPa RF	<input type="checkbox"/> ANSI 125# RF	<input type="checkbox"/> ANSI 150# RF	Cylinder				CODE NO.								
CODE NO.	<input type="checkbox"/> JIS 10k RF	<input type="checkbox"/> PN4.0 MPa RF	<input type="checkbox"/> JIS 20k RF	<input type="checkbox"/> ANSI 300# RF	h1	H2	h2	h3	H1	Size	B	L1	L3	G	HL	W	CODE NO.
<input type="checkbox"/> 0.5" 15A	110	108	140	60	—	223	353	420	<input type="checkbox"/> AT101	155	70	140	1/4	56	155	63D1RC	
							361	435	<input type="checkbox"/> AT201	205	70	140	1/4	56	155	63D2RC	
<input type="checkbox"/> 0.75" 20A	120	117	152	63	—	226	356	420	<input type="checkbox"/> AT101	155	70	140	1/4	56	155	63D1RC	
							364	435	<input type="checkbox"/> AT201	205	70	140	1/4	56	155	63D2RC	
<input type="checkbox"/> 1" 25A	130	127	165	75	—	238	368	435	<input type="checkbox"/> AT101	155	70	140	1/4	56	155	63D1RC	
							376	450	<input type="checkbox"/> AT201	205	70	140	1/4	56	155	63D2RC	
							383	465	<input type="checkbox"/> AT251	245	75	140	1/4	56	155	63DARC	
<input type="checkbox"/> 1.5" 40A	165	165	190	85	—	263	401	475	<input type="checkbox"/> AT201	205	70	140	1/4	56	155	63D2RC	
							408	490	<input type="checkbox"/> AT251	245	75	140	1/4	56	155	63DARC	
							399	485	<input type="checkbox"/> AT301	260	80	140	1/4	56	155	63D3RC	
							414	525	<input type="checkbox"/> AT401	335	100	140	1/4	56	155	63D4RC	
<input type="checkbox"/> 2" 50A	180	178	216	91	—	269	407	480	<input type="checkbox"/> AT201	205	70	140	1/4	56	155	63D2RC	
							414	495	<input type="checkbox"/> AT251	245	75	140	1/4	56	155	63DARC	
							405	490	<input type="checkbox"/> AT301	260	80	140	1/4	56	155	63D3RC	
							420	530	<input type="checkbox"/> AT401	335	100	140	1/4	56	155	63D4RC	
							467	595	<input type="checkbox"/> AT501	425	120	*1	1/4	69	*1	63D5RC	
<input type="checkbox"/> 2.5" 65A	190	190	241	120	—	269	439	525	<input type="checkbox"/> AT301	260	80	140	1/4	56	155	63D3RC	
							454	565	<input type="checkbox"/> AT401	335	100	140	1/4	56	155	63D4RC	
							501	630	<input type="checkbox"/> AT501	425	120	*1	1/4	69	*1	63D5RC	
							588	765	<input type="checkbox"/> AT601	530	130	*1	1/4	90	*1	63D6RC	
<input type="checkbox"/> 3" 80A	200	203	283	130	—	269	449	535	<input type="checkbox"/> AT301	260	80	140	1/4	56	155	63D3RC	
							464	575	<input type="checkbox"/> AT401	335	100	140	1/4	56	155	63D4RC	
							511	640	<input type="checkbox"/> AT501	425	120	*1	1/4	69	*1	63D5RC	
							598	775	<input type="checkbox"/> AT601	530	130	*1	1/4	90	*1	63D6RC	
<input type="checkbox"/> 4" 100A	230	229	305	160	115	269	519	630	<input type="checkbox"/> AT401	335	100	140	1/4	56	155	63D4RC	
							571	700	<input type="checkbox"/> AT501	425	120	*1	1/4	69	*1	63D5RC	
							633	810	<input type="checkbox"/> AT601	530	130	*1	1/4	90	*1	63D6RC	
<input type="checkbox"/> 5" 125A	300	356	381	185	140	269	606	735	<input type="checkbox"/> AT501	425	120	*1	1/4	69	*1	63D5RC	
							663	840	<input type="checkbox"/> AT601	530	130	*1	1/4	90	*1	63D6RC	
<input type="checkbox"/> 6" 150A	340	394	403	200	160	269	621	750	<input type="checkbox"/> AT501	425	120	*1	1/4	69	*1	63D5RC	
							678	855	<input type="checkbox"/> AT601	530	130	*1	1/4	90	*1	63D6RC	
<input type="checkbox"/> 8" 200A	450	457	502	250	210	269	728	905	<input type="checkbox"/> AT601	530	130	*1	1/4	90	*1	63D6RC	
<input type="checkbox"/> 10" 250A	533	533	568	315	310	269	808	985	<input type="checkbox"/> AT601	530	130	*1	1/4	90	*1	63D6RC	

NOTE:

DRAWING No.

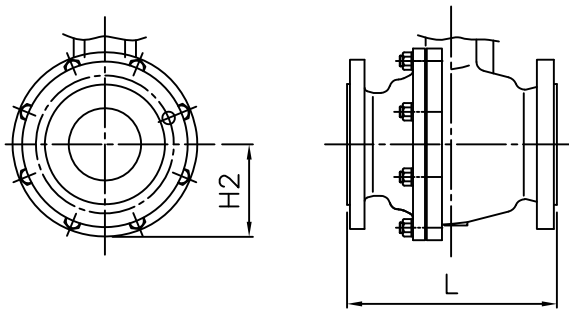
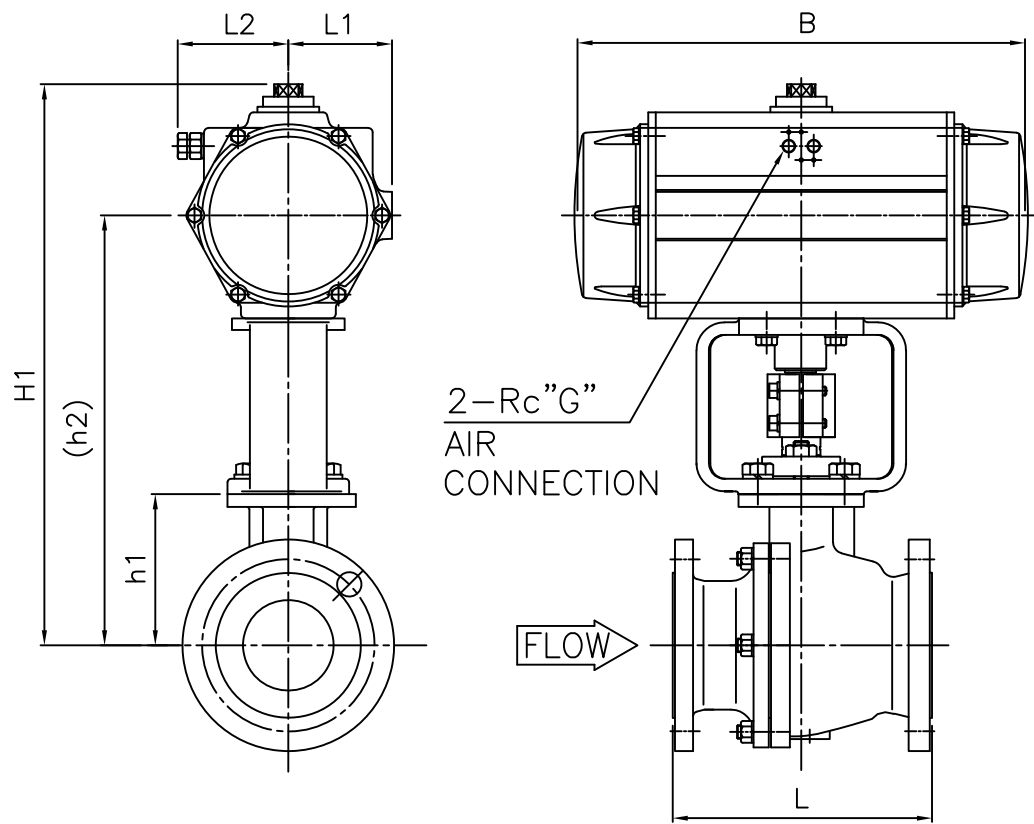
E-301K-6300RC-W-S-1

REV.

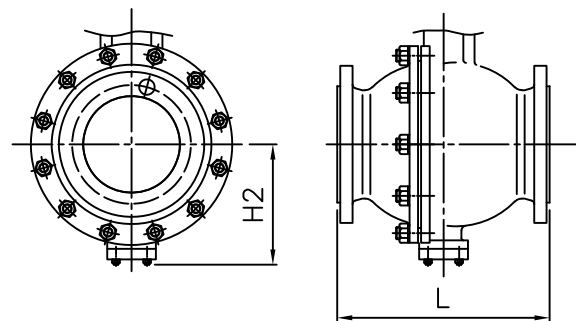
**KOSO**

# BALL VALVE

## 301K Double acting and Spring return cylinder



□ VALVE SIZE:L Class Body is 4"~8"  
M Class Body is 4"~6"



□ VALVE SIZE:L Class Body is 10" and 12"  
M Class Body is 8"~12"

### DIMENSIONS

UNIT : mm

VALVE SIZE CODE No,	FACE TO FACE L				ACTUATOR									
	□ JIS10K FF	□ PN1.6MPa	□ PN4.0MPa		Cylinder									
	□ JIS10K RF	□ ANSI125#RF	□ JIS20K RF		Size	B	L1	L2	G	CODE No,				
04 □ 4" (100A)	230	229	305		h1	H2	h2	H1	□ AT701	710	165	185	1/2	63D7RC
05 □ 5" (125A)	300	356	381		160	115	530	745	□ AT701	710	165	185	1/2	63D7RC
06 □ 6" (150A)	340	394	403		185	140	560	775	□ AT701	710	165	185	1/2	63D7RC
08 □ 8" (200A)	450	457	502		200	160	575	790	□ AT701	710	165	185	1/2	63D7RC
10 □ 10" (250A)	533	533	568		250	210	625	840	□ AT701	710	165	185	1/2	63D7RC
12 □ 12" (300A)	610	610	648		315	310	702	920	□ AT701	710	165	185	1/2	63D7RC
					380	350	767	985	□ AT701	710	165	185	1/2	63D7RC

\*FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET,

NOTE:

DRAWING No.

E-301K-63D7RC-W  
S-N

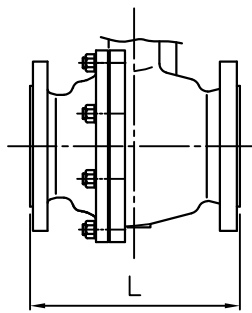
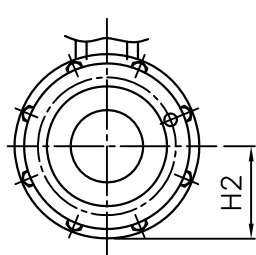
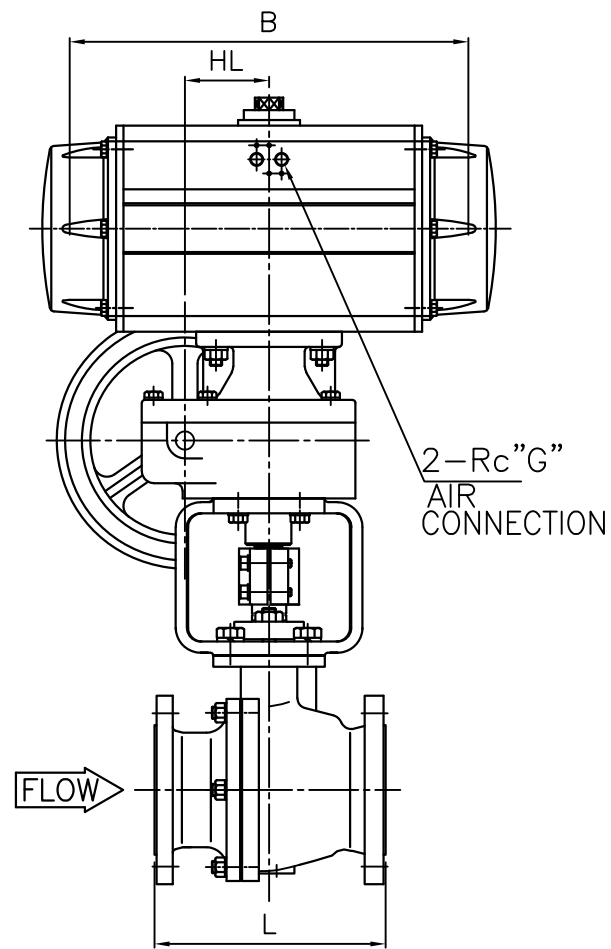
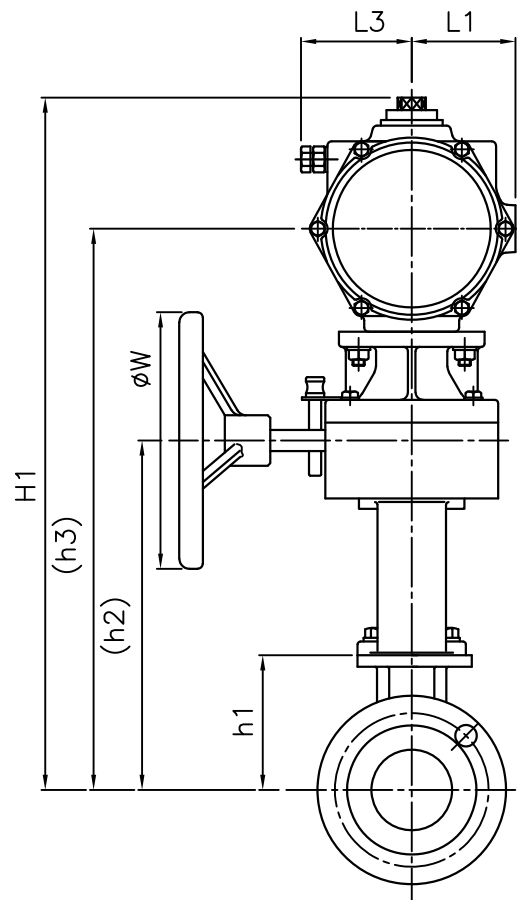
REV.

—

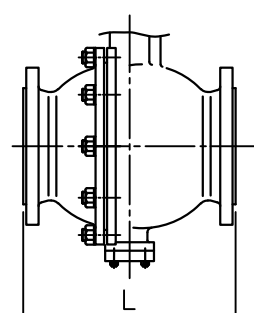
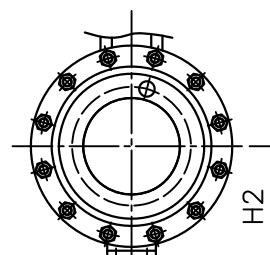
**KOSO**

# BALL VALVE

## 301K Double acting and Spring return cylinder With side handle



□ VALVE SIZE: L Class Body is 4"~8"  
M Class Body is 4"~6"



□ VALVE SIZE: L Class Body is 10" and 12"  
M Class Body is 8"~12"

*1	W	
	□ Double acting	□ Spring return
	400	630

### DIMENSIONS

UNIT : mm

VALVE SIZE CODE No,	FACE TO FACE L				ACTUATOR							
	□ JIS 10k FF	□ PN1.6MPa RF	□ PN4.0MPa RF	□ JIS 20k RF	Cylinder Size	B	L1	L3	G	HL	W	CODE No,
	□ JIS 10k RF	□ ANSI125# RF	□ ANSI150# RF	□ ANSI300# RF								
04 □ 4" (100A)	230	229	305	305	□ AT701	710	165	355	1/2	106	*1	63D7RC
05 □ 5" (125A)	300	356	381	381	□ AT701	710	165	355	1/2	106	*1	63D7RC
06 □ 6" (150A)	340	394	403	403	□ AT701	710	165	355	1/2	106	*1	63D7RC
08 □ 8" (200A)	450	457	502	502	□ AT701	710	165	355	1/2	106	*1	63D7RC
10 □ 10" (250A)	533	533	568	568	□ AT701	710	165	355	1/2	106	*1	63D7RC
12 □ 12" (300A)	610	610	648	648	□ AT701	710	165	355	1/2	106	*1	63D7RC

\*FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET,

NOTE:

DRAWING No.

E-310K-63D7RC-W-S

REV.

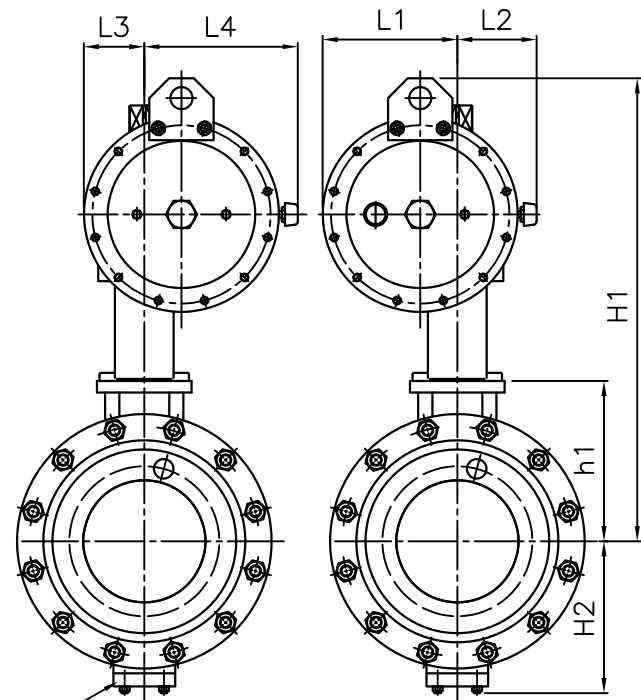
B

**KOSO**

# BALL VALVE

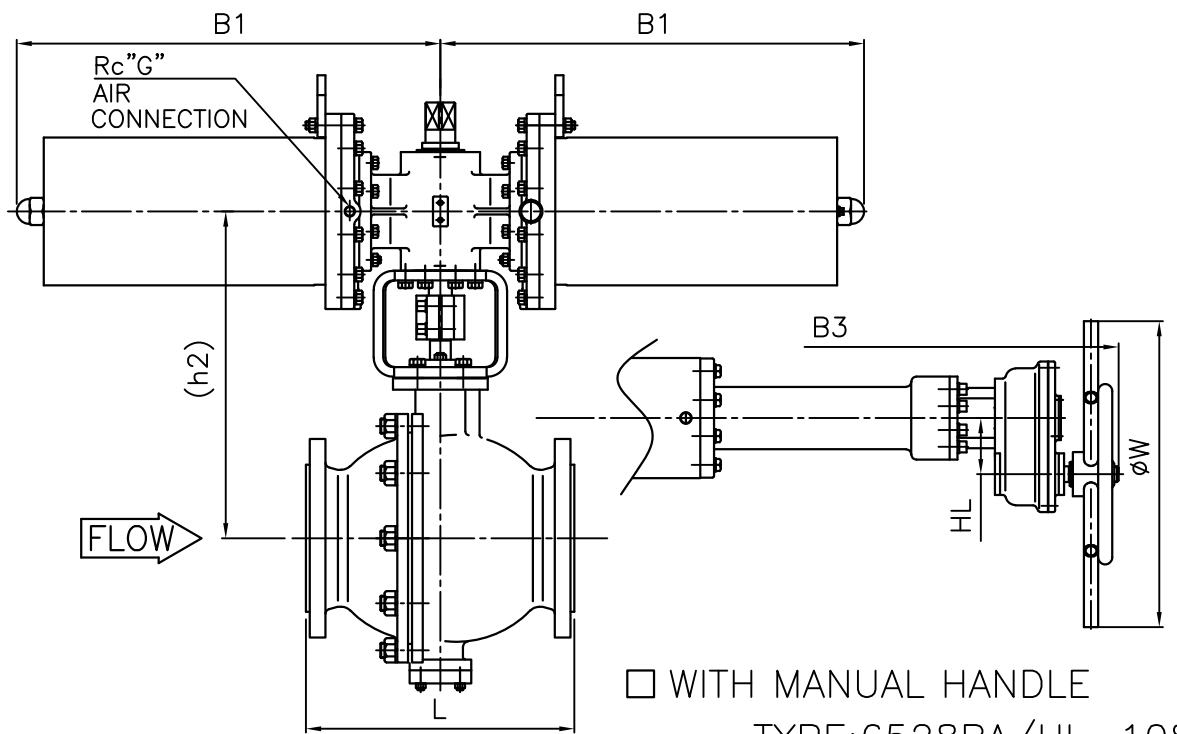
## Spring return cylinder

DIRECT ACTION     REVERSE ACTION



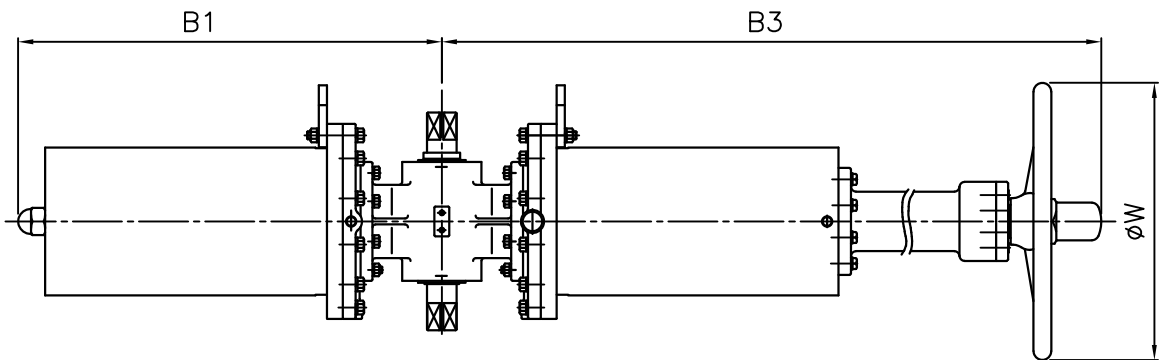
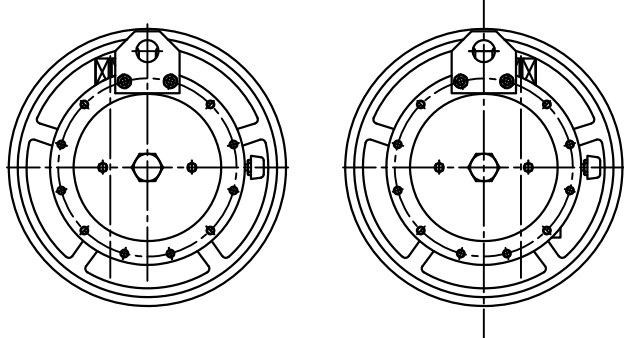
\*1

\*1 Bottomless/ L Class Body is 8" under  
M Class Body is 6" under



WITH MANUAL HANDLE  
TYPE:6528RA/HL=108  
:6536RA/HL=196

DIRECT ACTION     REVERSE ACTION



WITH MANUAL HANDLE  
(6520RA)

### DIMENSIONS

UNIT : mm

VALVE SIZE CODE No,	FACE TO FACE L				ACTUATOR												
	<input type="checkbox"/> JIS 10k FF	<input type="checkbox"/> PN1.6MPa RF <input type="checkbox"/> ANSI 125# RF	<input type="checkbox"/> PN4.0MPa RF <input type="checkbox"/> JIS 20k RF <input type="checkbox"/> ANSI 300# RF		Cylinder						WITH MANUAL HANDLE		CODE No,				
	<input type="checkbox"/> JIS 10k RF	<input type="checkbox"/> ANSI 150# RF	<input type="checkbox"/> ANSI 300# RF	h1	h2	H1	H2	Size	B1	L1	L2	L3		L4	G	B3	W
04 <input type="checkbox"/> 4" (100A)	230	229	305	160	475	710	115	<input type="checkbox"/> 200	770	215	135	95	255	3/8	1330	400	6520RA
05 <input type="checkbox"/> 5" (125A)	300	356	381	185	510	745	140	<input type="checkbox"/> 200	770	215	135	95	255	3/8	1330	400	6520RA
					515	790		<input type="checkbox"/> 280	865	275	165	125	315	1/2	1615	590	6528RA
06 <input type="checkbox"/> 6" (150A)	340	394	403	200	525	760	160	<input type="checkbox"/> 200	770	215	135	95	255	3/8	1330	400	6520RA
					530	805		<input type="checkbox"/> 280	865	275	165	125	315	1/2	1615	590	6528RA
08 <input type="checkbox"/> 8" (200A)	450	457	502	250	575	810	210	<input type="checkbox"/> 200	770	215	135	95	255	3/8	1330	400	6520RA
					580	855		<input type="checkbox"/> 280	865	275	165	125	315	1/2	1615	590	6528RA
10 <input type="checkbox"/> 10" (250A)	533	533	568	315	650	885	310	<input type="checkbox"/> 200	770	215	135	95	255	3/8	1330	400	6520RA
					660	935		<input type="checkbox"/> 280	865	275	165	125	315	1/2	1615	590	6528RA
					735	1065		<input type="checkbox"/> 360	1070	315	265	135	355	1/2	1990	590	6536RA
12 <input type="checkbox"/> 12" (300A)	610	610	648	380	725	1000	350	<input type="checkbox"/> 280	865	275	165	125	315	1/2	1615	590	6528RA
					800	1130		<input type="checkbox"/> 360	1070	315	265	135	355	1/2	1990	590	6536RA

\*FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET.

NOTE:

DRAWING No.

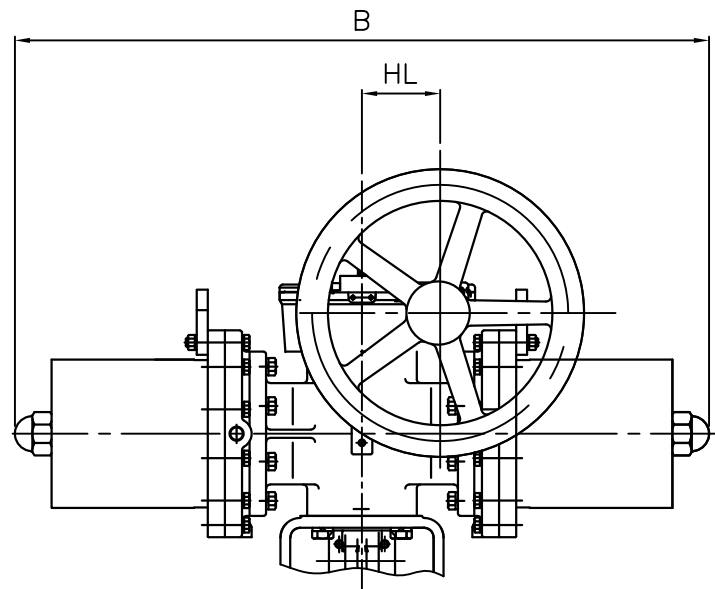
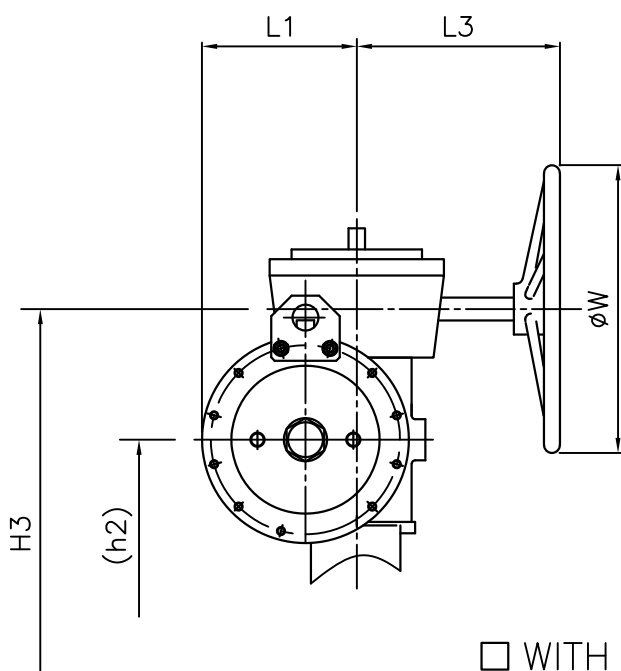
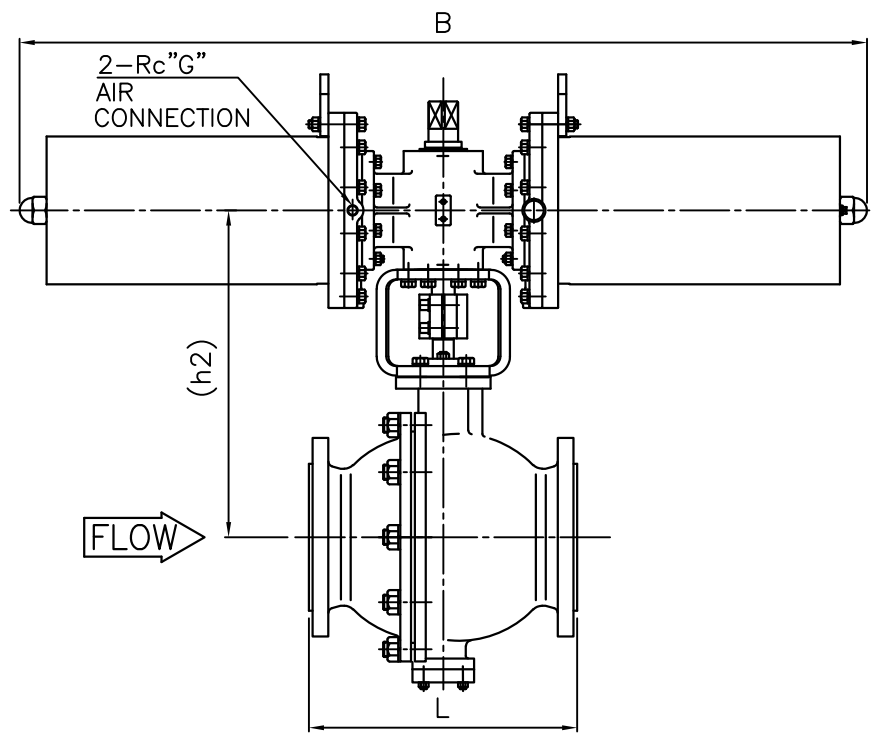
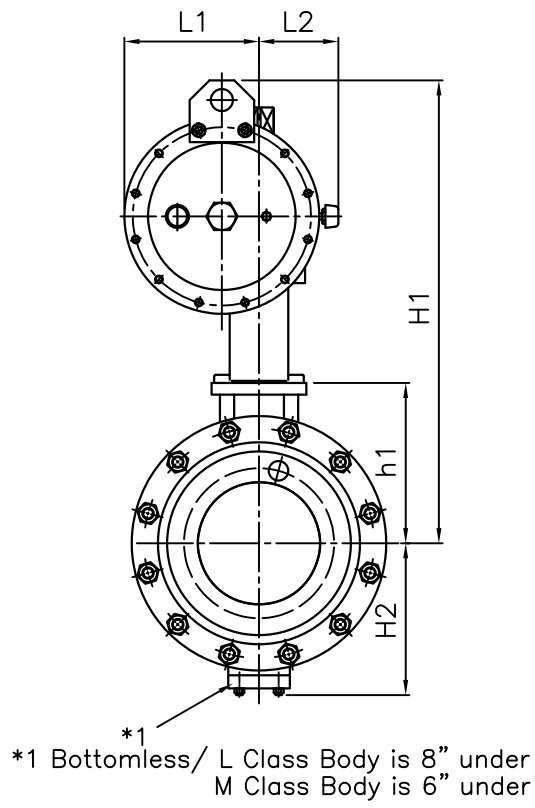
E-301K-6500RA-D-N  
R-S

REV.

**KOSO**

# BALL VALVE

## 301K Double acting cylinder



WITH MANUAL HANDLE

### DIMENSIONS

UNIT : mm

CODE NO.	VALVE SIZE	FACE TO FACE: L			ACTUATOR																								
		<input type="checkbox"/> JIS 10k FF	<input type="checkbox"/> PN1.6MPa RF <input type="checkbox"/> ANSI150# RF <input type="checkbox"/> ANSI300# RF	<input type="checkbox"/> PN4.0MPa RF <input type="checkbox"/> JIS 20k RF <input type="checkbox"/> ANSI300# RF	h1	h2	H1	H2	H3	Cylinder					<input type="checkbox"/> WITH MANUAL HANDLE			CODE NO.											
		<input type="checkbox"/> JIS 10k RF	<input type="checkbox"/> ANSI300# RF	<input type="checkbox"/> ANSI300# RF						Size	B	L1	L2	G	HL	L3	W												
05	<input type="checkbox"/> 5" (125A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	185	490	695	140	640	<input type="checkbox"/>	170	880	205	90	3/8	93	270	300	6517RA										
06	<input type="checkbox"/> 6" (150A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200	505	710	160	655	<input type="checkbox"/>	170	880	205	90	3/8	93	270	300	6517RA										
						530	750		700											<input type="checkbox"/>	200	1110	230	100	1/2	108	315	400	6520RA
08	<input type="checkbox"/> 8" (200A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	250	555	760	210	705	<input type="checkbox"/>	170	880	205	90	3/8	93	270	300	6517RA										
						580	800		750											<input type="checkbox"/>	200	1110	230	100	1/2	108	315	400	6520RA
10	<input type="checkbox"/> 10" (250A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	315	630	840	310	780	<input type="checkbox"/>	170	880	205	90	3/8	93	270	300	6517RA										
						660	880		830											<input type="checkbox"/>	200	1110	230	100	1/2	108	315	400	6520RA
						735	1025		980											<input type="checkbox"/>	280	1350	290	130	1/2	165	380	630	6528RA
12	<input type="checkbox"/> 12" (300A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	380	695	905	350	845	<input type="checkbox"/>	170	880	205	90	3/8	93	270	300	6517RA										
						725	945		895											<input type="checkbox"/>	200	1110	230	100	1/2	108	315	400	6520RA
						800	1090		1045											<input type="checkbox"/>	280	1350	290	130	1/2	165	380	630	6528RA

\*FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET.

NOTE:

DRAWING No.

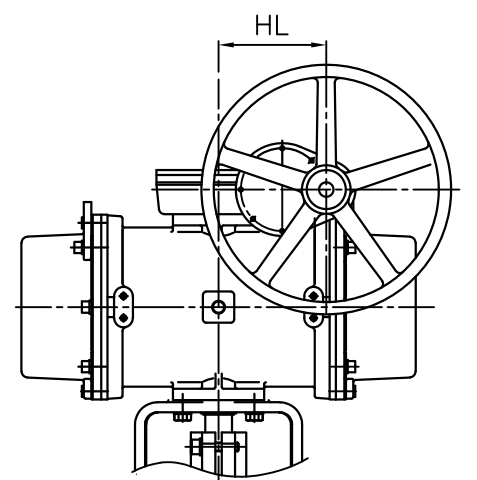
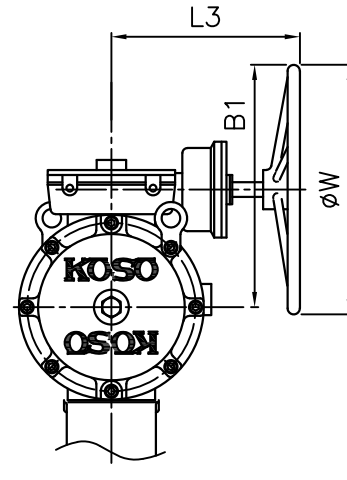
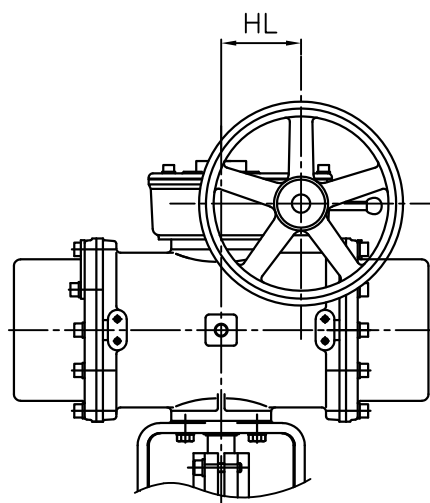
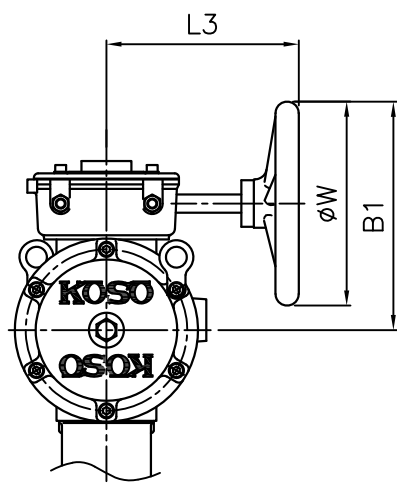
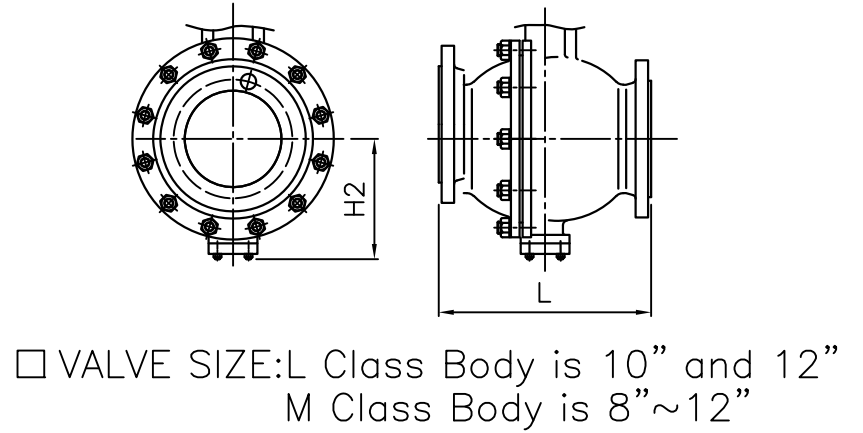
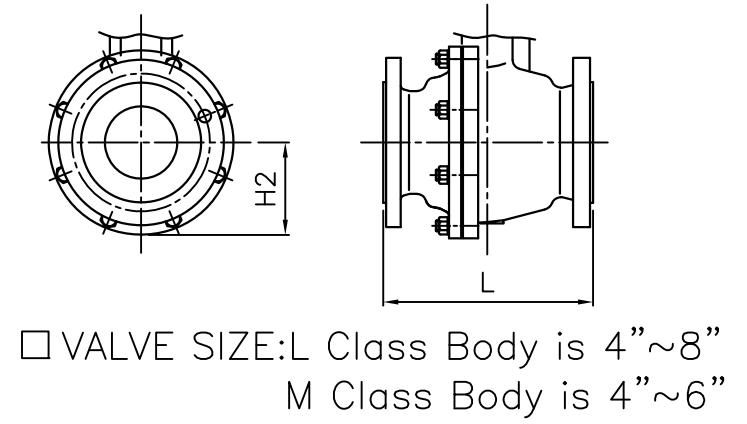
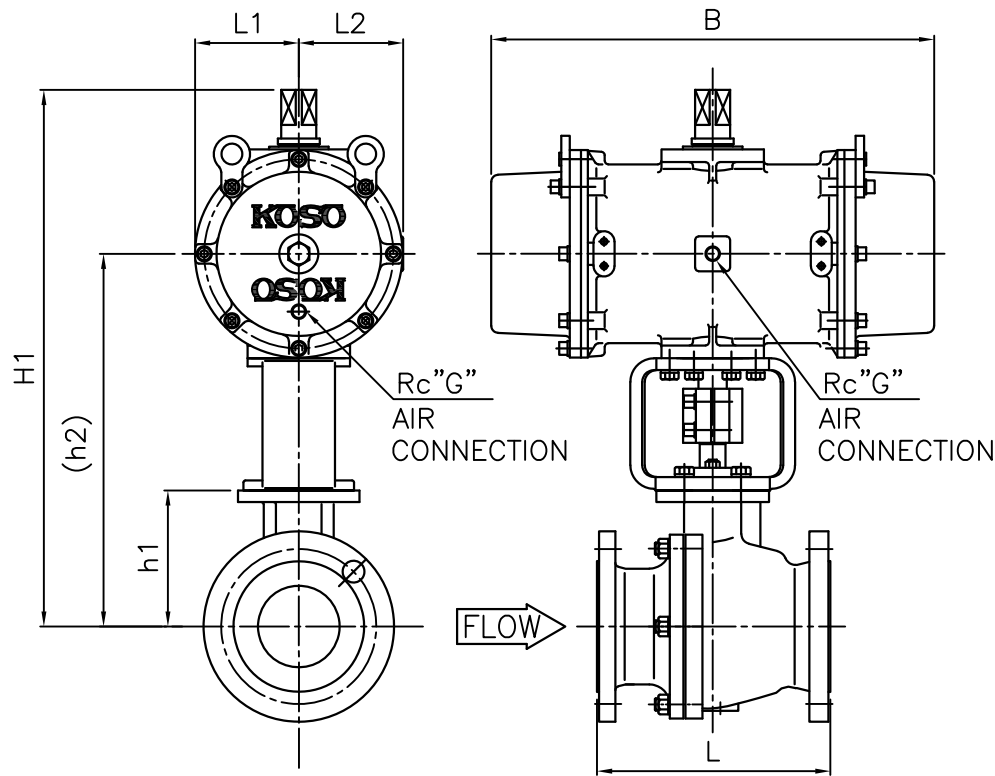
E-301K-6500RA-W-N  
H

REV.

**KOSO**

# BALL VALVE

## 301K Spring return cylinder



□ ACT.SIZE : 170~280

□ ACT.SIZE : 375  
□ WITH MANUAL HANDLE

### DIMENSIONS

UNIT : mm

VALVE SIZE CODE No,	FACE TO FACE L				ACTUATOR																						
	□ JIS 10k FF	□ PN1.6MPa RF	□ ANS1125# RF	□ PN4.0MPa RF	h1	H2	h2	H1	Cylinder					□ WITH MANUAL HANDLE				CODE No,									
	□ JIS 10k RF	□ ANS1150# RF	□ ANS120k RF	□ ANS300# RF					Size	B	L1	L2	G	L3	HL	B1	W										
94 □ 2 1/2" (65A)	190	190	241	241	120	—	369	550	□ 170	500	110	120	3/8	235	93	305	300	7317RB									
03 □ 3" (80A)	200	203	283	283	130	—	379	560	□ 170	500	110	120	3/8	235	93	305	300	7317RB									
									□ 235										635	150	160	1/2	315	108	400	400	7323RB
04 □ 4" (100A)	230	229	305	305	160	115	434	615	□ 170	500	110	120	3/8	235	93	305	300	7317RB									
									□ 235										635	150	160	1/2	315	108	400	400	7323RB
									□ 280										810	185	185	1/2	380	165	560	630	7328RB
05 □ 5" (125A)	300	356	381	381	185	140	534	770	□ 235	635	150	160	1/2	315	108	400	400	7323RB									
									□ 280										810	185	185	1/2	380	165	560	630	7328RB
									□ 375										990	240	240	3/4	467	269	607	630	7337RB
06 □ 6" (150A)	340	394	403	403	200	160	549	785	□ 235	635	150	160	1/2	315	108	400	400	7323RB									
									□ 280										810	185	185	1/2	380	165	560	630	7328RB
									□ 375										990	240	240	3/4	467	269	607	630	7337RB
08 □ 8" (200A)	450	457	502	502	250	210	599	835	□ 235	635	150	160	1/2	315	108	400	400	7323RB									
									□ 280										810	185	185	1/2	380	165	560	630	7328RB
									□ 375										990	240	240	3/4	467	269	607	630	7337RB
10 □ 10" (250A)	533	533	568	568	315	310	676	910	□ 235	635	150	160	1/2	315	108	400	400	7323RB									
									□ 280										810	185	185	1/2	380	165	560	630	7328RB
									□ 375										990	240	240	3/4	467	269	607	630	7337RB
12 □ 12" (300A)	610	610	648	648	380	350	787	1075	□ 280	810	185	185	1/2	380	165	560	630	7328RB									
									□ 375										990	240	240	3/4	467	269	607	630	7337RB

NOTE:

DRAWING No.

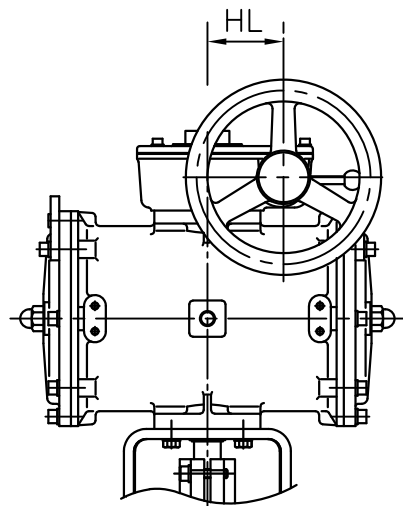
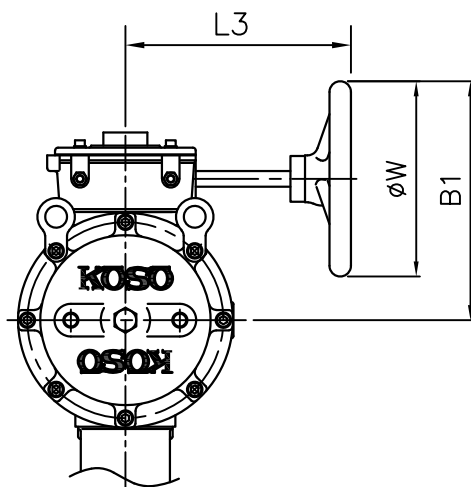
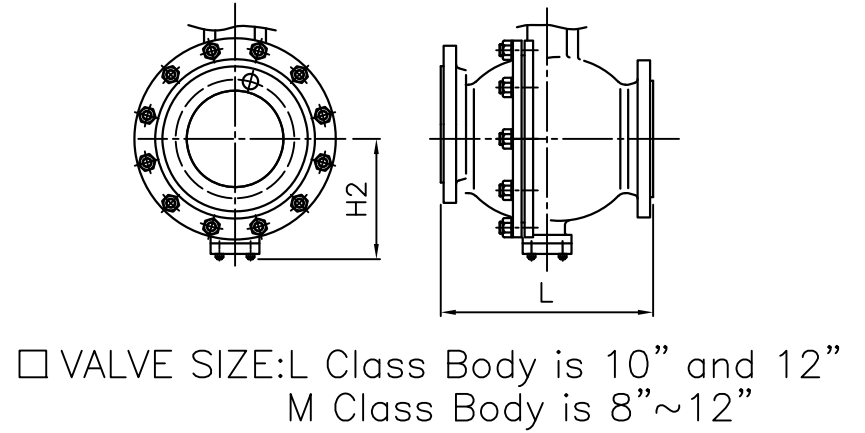
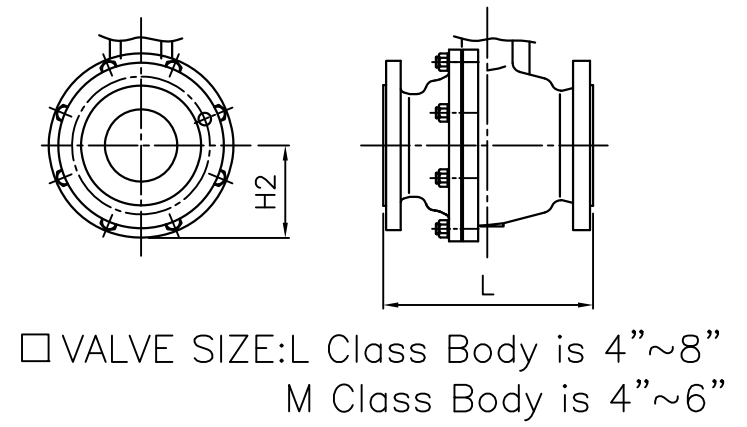
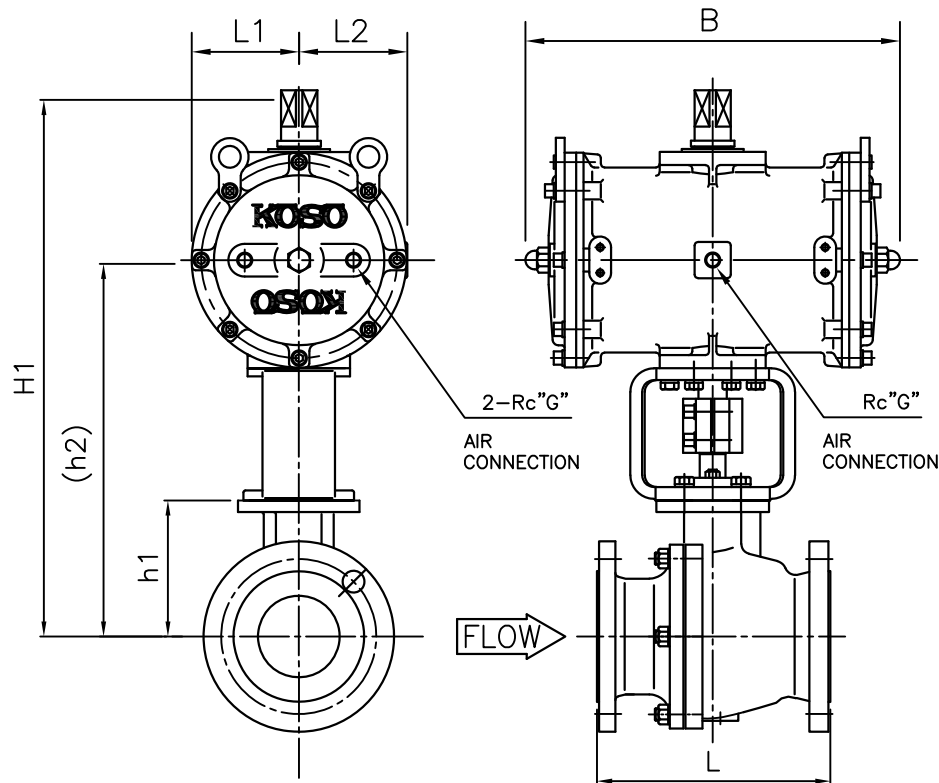
E-301K-7300RB-S-NH-1

REV.

— **KOSO**

# BALL VALVE

## 301K Double acting cylinder



WITH MANUAL HANDLE

### DIMENSIONS

UNIT : mm

VALVE SIZE CODE No,	FACE TO FACE L				ACTUATOR																						
	<input type="checkbox"/> JIS 10k RF	<input type="checkbox"/> PN1.6MPa RF	<input type="checkbox"/> ANSI125# RF	<input type="checkbox"/> PN4.0MPa RF	Cylinder									<input type="checkbox"/> WITH MANUAL HANDLE					CODE No,								
	<input type="checkbox"/> JIS 10k RF	<input type="checkbox"/> ANSI150# RF	<input type="checkbox"/> JIS 20k RF	<input type="checkbox"/> ANSI300# RF	h1	H2	h2	H1	Size	B	L1	L2	G	L3	HL	B1	W										
94 <input type="checkbox"/> 2 1/2" (65A)	190	190	241	241	120	—	369	550	<input type="checkbox"/> 170	400	110	120	3/8	235	75	245	200	7317RB									
03 <input type="checkbox"/> 3" (80A)	200	203	283	283	130	—	379	560	<input type="checkbox"/> 170	400	110	120	3/8	235	75	245	200	7317RB									
04 <input type="checkbox"/> 4" (100A)	230	229	305	305	160	115	434	615	<input type="checkbox"/> 170	400	110	120	3/8	235	75	245	200	7317RB									
									<input type="checkbox"/> 235										515	150	160	1/2	270	93	345	300	7323RB
05 <input type="checkbox"/> 5" (125A)	300	356	381	381	185	140	474	655	<input type="checkbox"/> 170	400	110	120	3/8	235	75	245	200	7317RB									
									<input type="checkbox"/> 235										515	150	160	1/2	270	93	345	300	7323RB
									<input type="checkbox"/> 280										630	185	185	1/2	315	108	435	400	7328RB
06 <input type="checkbox"/> 6" (150A)	340	394	403	403	200	160	489	670	<input type="checkbox"/> 170	400	110	120	3/8	235	75	245	200	7317RB									
									<input type="checkbox"/> 235										515	150	160	1/2	270	93	345	300	7323RB
									<input type="checkbox"/> 280										630	185	185	1/2	315	108	435	400	7328RB
08 <input type="checkbox"/> 8" (200A)	450	457	502	502	250	210	599	835	<input type="checkbox"/> 235	515	150	160	1/2	270	93	345	300	7323RB									
									<input type="checkbox"/> 280										630	185	185	1/2	315	108	435	400	7328RB
									<input type="checkbox"/> 375										815	240	240	3/4	380	165	615	630	7337RB
10 <input type="checkbox"/> 10" (250A)	533	533	568	568	315	310	676	910	<input type="checkbox"/> 235	515	150	160	1/2	270	93	345	300	7323RB									
									<input type="checkbox"/> 280										630	185	185	1/2	315	108	435	400	7328RB
									<input type="checkbox"/> 375										815	240	240	3/4	380	165	615	630	7337RB
12 <input type="checkbox"/> 12" (300A)	610	610	648	648	380	350	741	975	<input type="checkbox"/> 235	515	150	160	1/2	270	93	345	300	7323RB									
									<input type="checkbox"/> 280										630	185	185	1/2	315	108	435	400	7328RB
									<input type="checkbox"/> 375										815	240	240	3/4	380	165	615	630	7337RB

NOTE:

DRAWING No.

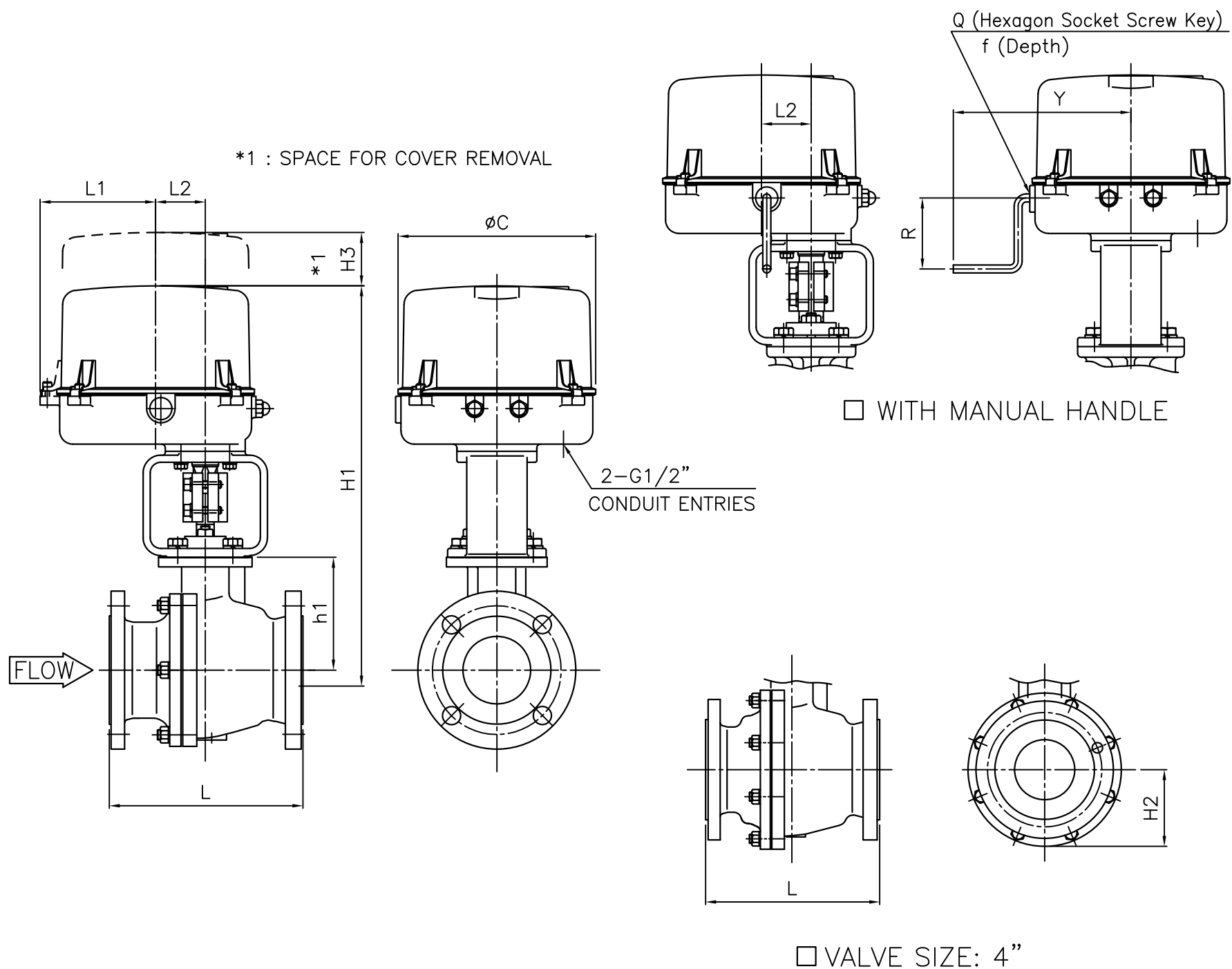
E-301K-7300RB-W-N<sub>H</sub>-1

REV.

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**KOSO**

# BALL VALVE 301K Motorized Actuator



DIMENSIONS		UNIT : mm													
VALVE SIZE	FACE TO FACE:L				ACTUATOR										
	<input type="checkbox"/> JIS10k FF	<input type="checkbox"/> PN1.6MPa	<input type="checkbox"/> PN4.0MPa						<input type="checkbox"/> WITH MANUAL HANDLE				SIZE CODE NO,		
CODE NO,	<input type="checkbox"/> JIS10k RF	<input type="checkbox"/> JIS10k RF	<input type="checkbox"/> JIS20k RF		h1	H2	H1	H3	L1	L2	ØC	R		Y	Q~f
90	<input type="checkbox"/> 1/2"(15A)	110	108	140	60	—	350	120	130	56	225	80	200	6~12	<input type="checkbox"/> 341RSA-02
91	<input type="checkbox"/> 3/4"(20A)	120	117	152	63	—	355	120	130	56	225	80	200	6~12	<input type="checkbox"/> 341RSA-02
01	<input type="checkbox"/> 1"(25A)	130	127	165	75	—	365	120	130	56	225	80	200	6~12	<input type="checkbox"/> 341RSA-02 <input type="checkbox"/> 341RSA-05
93	<input type="checkbox"/> 1-1/2" (40A)	165	165	190	85	—	385	120	130	56	225	80	200	6~12	<input type="checkbox"/> 341RSA-05
							425	155	145	68	255	160	225	8~15	<input type="checkbox"/> 34RSB-10
02	<input type="checkbox"/> 2"(50A)	180	178	216	91	—	395	120	130	56	225	80	200	6~12	<input type="checkbox"/> 341RSA-05
							425	155	145	68	255	160	225	8~15	<input type="checkbox"/> 34RSB-10
94	<input type="checkbox"/> 2-1/2" (65A)	190	190	241	120	—	465	155	145	68	255	160	225	8~15	<input type="checkbox"/> 34RSB-10 <input type="checkbox"/> 34RSB-20
03	<input type="checkbox"/> 3"(80A)	200	203	283	130	—	475	155	145	68	255	160	225	8~15	<input type="checkbox"/> 34RSB-10 <input type="checkbox"/> 34RSB-20
04	<input type="checkbox"/> 4"(100A)	230	229	305	160	115	535	155	145	68	255	160	225	8~15	<input type="checkbox"/> 34RSB-20

\*FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET,

NOTE:

DRAWING No.

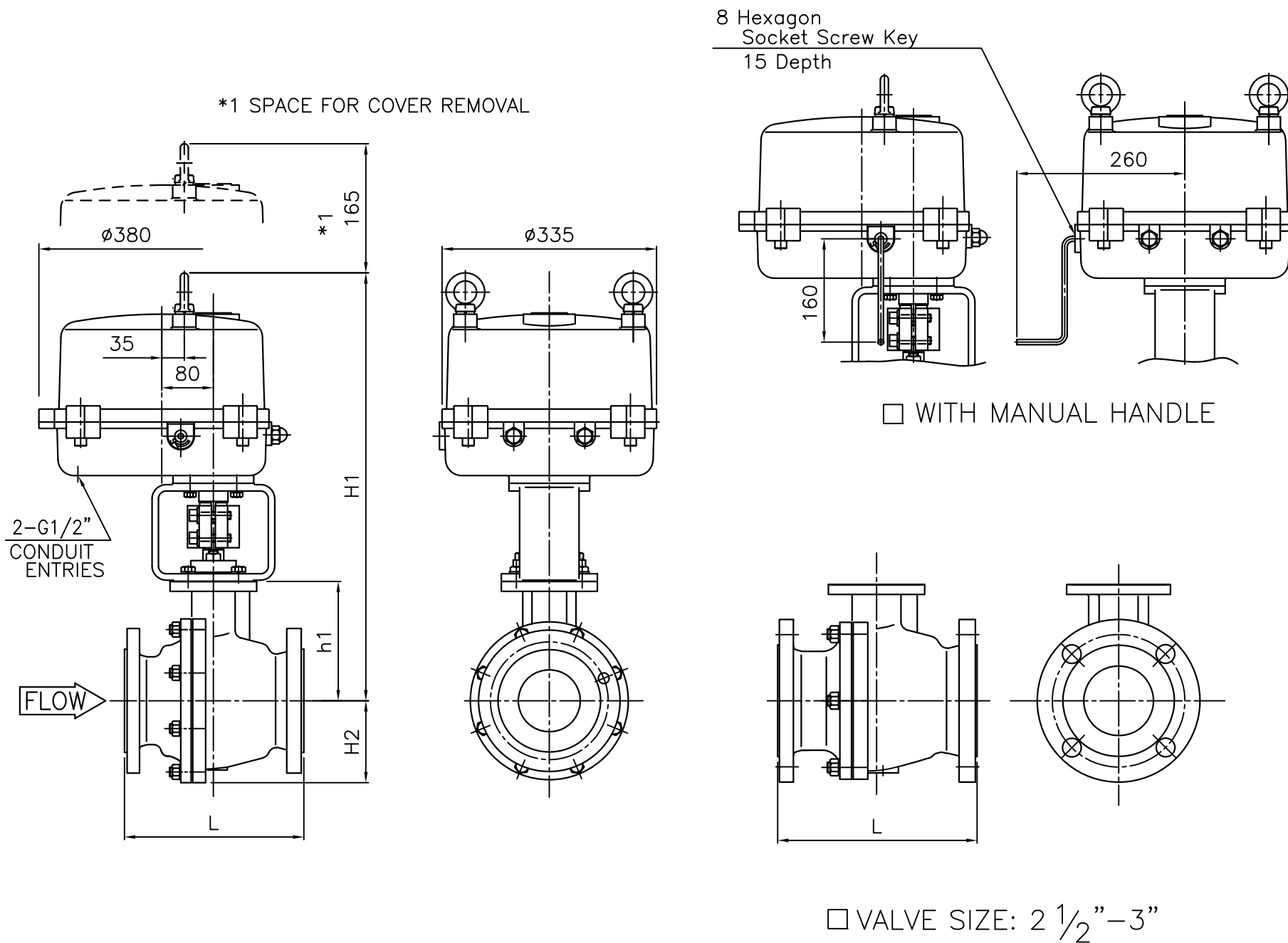
E-301K-341RS<sup>A</sup>-<sup>N</sup><sub>B</sub>-<sup>S</sup>

REV.

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**KOSO**

# BALL VALVE 301K Motorized Actuator



## DIMENSIONS

UNIT : mm

VALVE SIZE	FACE TO FACE L			h1	H2	H1	SIZE CODE No,
	□ JIS10k FF □ JIS10k RF	□ ANSI125#RF □ ANSI150#RF □ PN1.6 MPa	□ JIS20k RF □ ANSI300#RF □ PN4.0 MPa				
94 □ 2 1/2" (65A)	190	190	241	120	—	525	□ 341RSC-30 □ 341RSC-50 □ 341RSC-60
03 □ 3" (80A)	200	203	283	130	—	535	□ 341RSC-30 □ 341RSC-50 □ 341RSC-60
04 □ 4" (100A)	230	229	305	160	115	590	□ 341RSC-30 □ 341RSC-50 □ 341RSC-60
05 □ 5" (125A)	300	356	381	185	140	630	□ 341RSC-30 □ 341RSC-50 □ 341RSC-60
06 □ 6" (150A)	340	394	403	200	160	645	□ 341RSC-30 □ 341RSC-50 □ 341RSC-60

\*FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET,

NOTE:

DRAWING No.

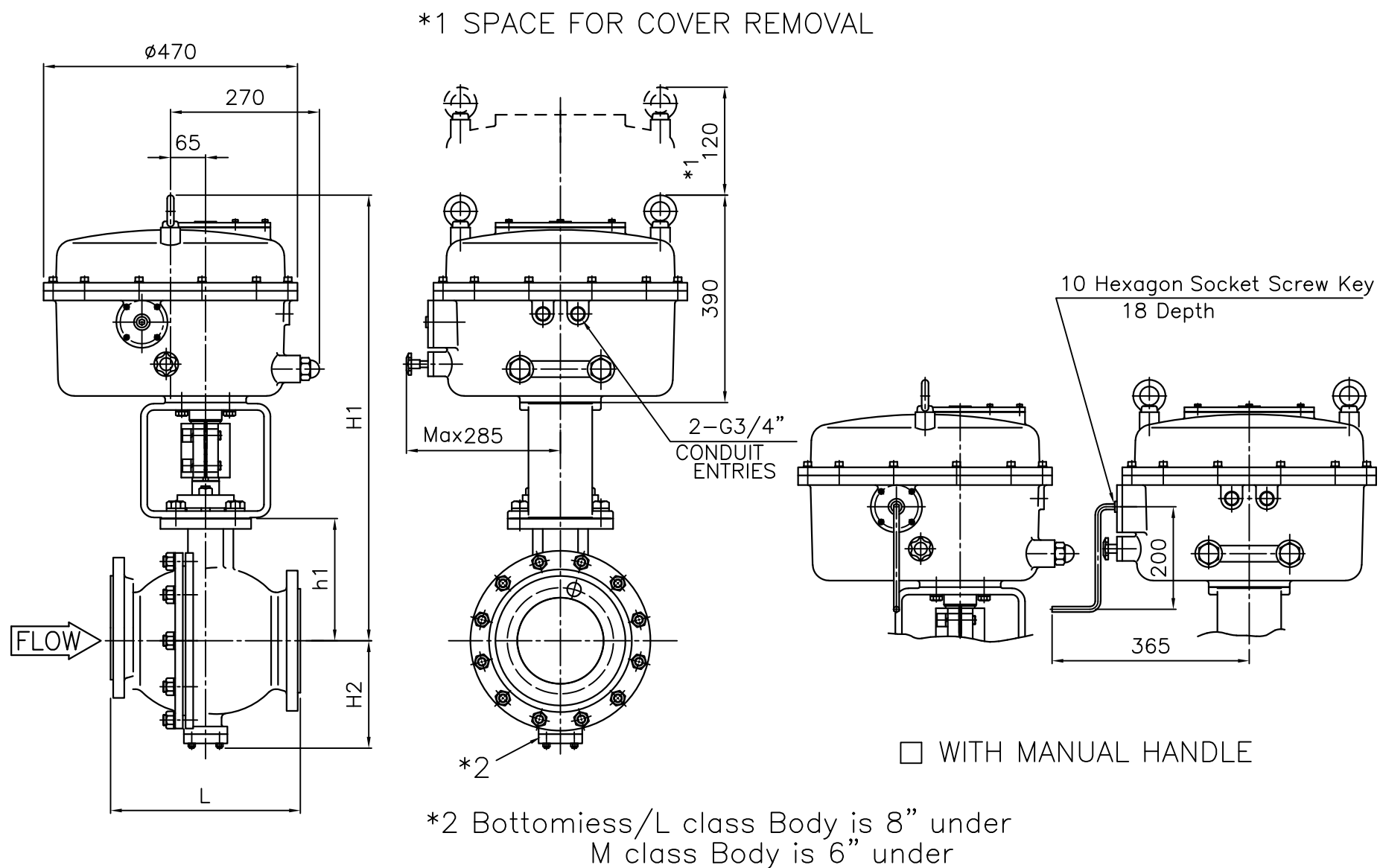
E-301K-341RSC-N  
S

REV.

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**KOSO**

# BALL VALVE 301K Motorized Actuator



## DIMENSIONS

UNIT : mm

VALVE SIZE	FACE TO FACE L			h1	H2	H1	SIZE CODE No,
	<input type="checkbox"/> JIS10k FF <input type="checkbox"/> JIS10k RF	<input type="checkbox"/> ANSI125#RF <input type="checkbox"/> ANSI150#RF <input type="checkbox"/> PN1.6 MPa	<input type="checkbox"/> JIS20k RF <input type="checkbox"/> ANSI300#RF <input type="checkbox"/> PN4.0 MPa				
05 <input type="checkbox"/> 5" (125A)	300	356	381	185	140	775	<input type="checkbox"/> 341RSD-100 <input type="checkbox"/> 341RSD-150
06 <input type="checkbox"/> 6" (150A)	340	394	403	200	160	785	<input type="checkbox"/> 341RSD-100 <input type="checkbox"/> 341RSD-150
08 <input type="checkbox"/> 8" (200A)	450	457	502	250	210	840	<input type="checkbox"/> 341RSD-100 <input type="checkbox"/> 341RSD-150
10 <input type="checkbox"/> 10" (250A)	533	533	568	315	310	920	<input type="checkbox"/> 341RSD-100 <input type="checkbox"/> 341RSD-150
12 <input type="checkbox"/> 12" (300A)	610	610	648	380	350	985	<input type="checkbox"/> 341RSD-100 <input type="checkbox"/> 341RSD-150

\*FLANGE IS ACCORDING TO THE STANDARD WHICH IS DESCRIBED ON SPECIFICATION SHEET,

NOTE:

DRAWING No.

E-301K-341RSD-N  
S

REV.

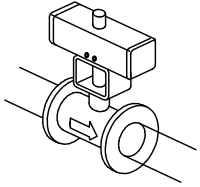
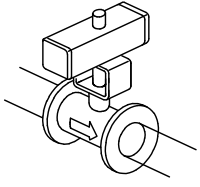
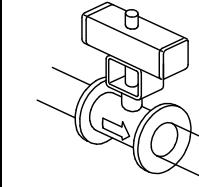
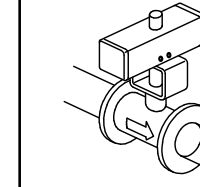
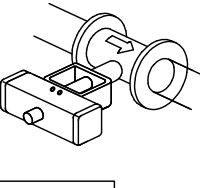
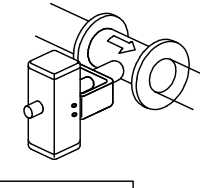
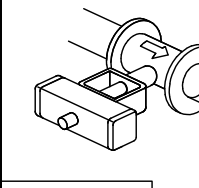
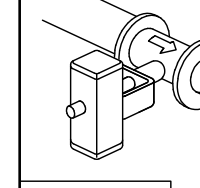
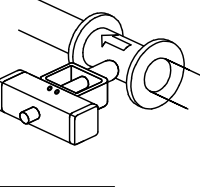
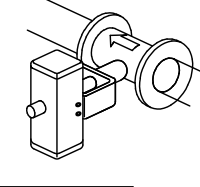
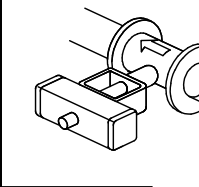
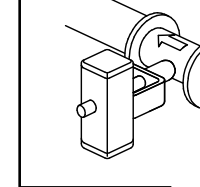
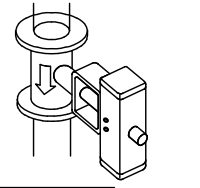
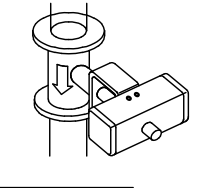
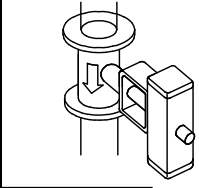
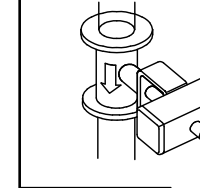
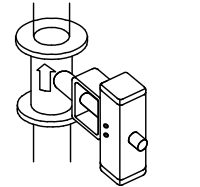
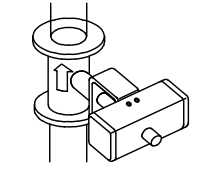
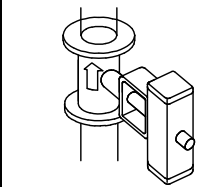
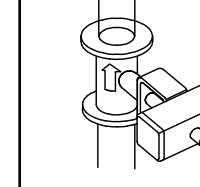
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**KOSO**

# 6300RC 安装方位

## MOUNTING FROM

6300RC-N

			
TYPE-S(标准)	TYPE-R1	TYPE-R2	TYPE-R3
			
TYPE-A-S	TYPE-A-R1	TYPE-A-R2	TYPE-A-R3
			
TYPE-B-S	TYPE-B-R1	TYPE-B-R2	TYPE-B-R3
			
TYPE-C-S	TYPE-C-R1	TYPE-C-R2	TYPE-C-R3
			
TYPE-D-S	TYPE-D-R1	TYPE-D-R2	TYPE-D-R3

备注

Remarks

阀门不能颠倒安装。

Please do not mount the valve unit upside down.

⇒ 箭头表示流体方向。

⇒ Indicates the flow direction.

安装位置为非标准时，请指定安装位置形式（TYPE）。

Type S is automatically applied, unless otherwise specified.

REV.

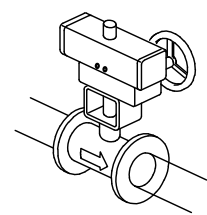
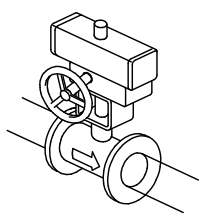
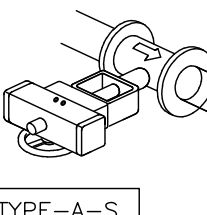
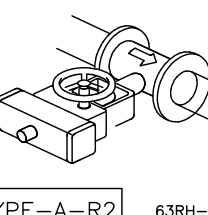
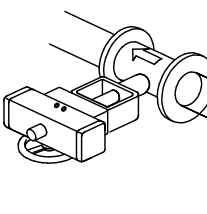
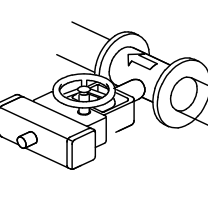
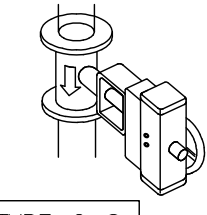
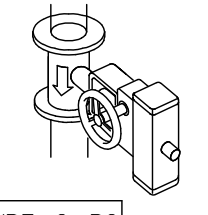
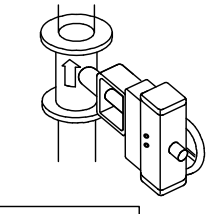
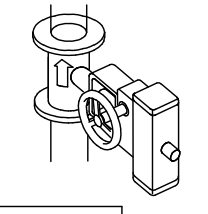
A

**KOSO**

# 6300RC 安装方位

## MOUNTING FROM

6300RC-S

			
TYPE-S(标准)	TYPE-R1	TYPE-R2	TYPE-R3
			
TYPE-A-S	TYPE-A-R1	TYPE-A-R2	63RH-AR2 TYPE-A-R3
			
TYPE-B-S	TYPE-B-R1	TYPE-B-R2	TYPE-B-R3
			
TYPE-C-S	TYPE-C-R1	TYPE-C-R2	TYPE-C-R3
			
TYPE-D-S	TYPE-D-R1	TYPE-D-R2	TYPE-D-R3

### 备注 Remarks

阀门不能颠倒安装。

Please do not mount the valve unit upside down.

⇒ 箭头表示流体方向。

⇒ Indicates the flow direction.

安装位置为非标准时，请指定安装位置形式（TYPE）。

Type S is automatically applied, unless otherwise specified.

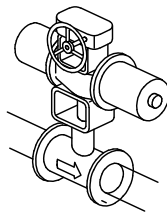
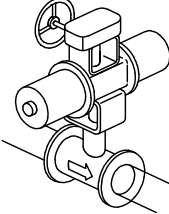
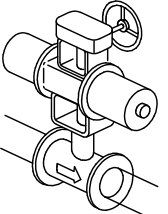
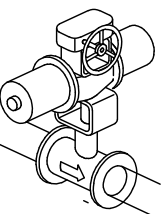
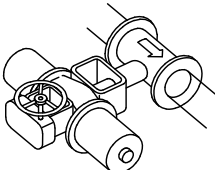
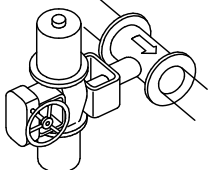
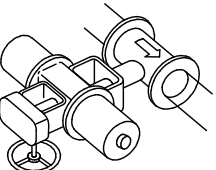
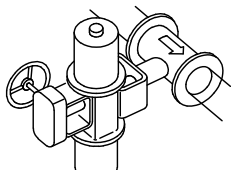
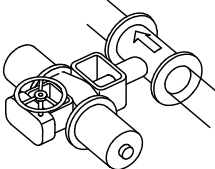
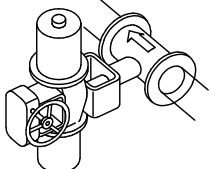
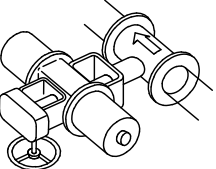
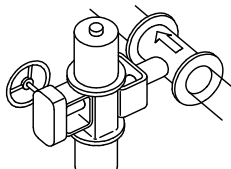
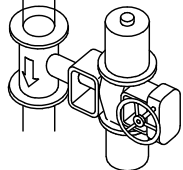
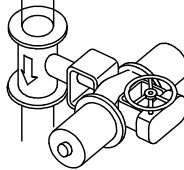
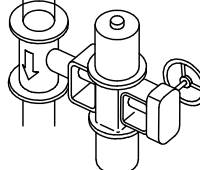
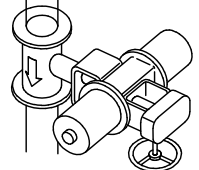
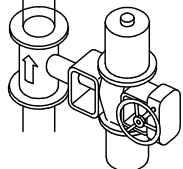
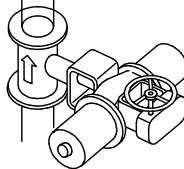
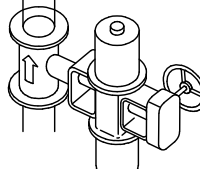
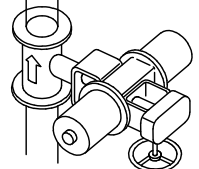
REV.
A

**KOSO**

# 6500RA 安装方位

## MOUNTING FROM

6500RA-W-H

			
TYPE-S (标准)	TYPE-R1	TYPE-R2	TYPE-R3
			
TYPE-A-S	TYPE-A-R1	TYPE-A-R2	TYPE-A-R3
			
TYPE-B-S	TYPE-B-R1	TYPE-B-R2	TYPE-B-R3
			
TYPE-C-S	TYPE-C-R1	TYPE-C-R2	TYPE-C-R3
			
TYPE-D-S	TYPE-D-R1	TYPE-D-R2	TYPE-D-R3

备注

Remarks

阀门不能颠倒安装。

Please do not mount the valve unit upside down.

⇒ 箭头表示流体方向。

⇒ Indicates the flow direction.

安装位置为非标准时，请指定安装位置形式 (TYPE)。

Type S is automatically applied, unless otherwise specified.

REV.

A

**KOSO**

# 6500RB 安装方位

## MOUNTING FROM

6500RA- $\frac{R}{D}$ - $\frac{N}{S}$ ; 6500RA-W-N

TYPE-S (标准)	TYPE-R1	TYPE-R2	TYPE-R3
TYPE-A-S	TYPE-A-R1	TYPE-A-R2	TYPE-A-R3
TYPE-B-S	TYPE-B-R1	TYPE-B-R2	TYPE-B-R3
TYPE-C-S	TYPE-C-R1	TYPE-C-R2	TYPE-C-R3
TYPE-D-S	TYPE-D-R1	TYPE-D-R2	TYPE-D-R3

### 备注

#### Remarks

阀门不能颠倒安装。

Please do not mount the valve unit upside down.

⇒ 箭头表示流体方向。

⇒ Indicates the flow direction.

安装位置为非标准时，请指定安装位置形式 (TYPE)。

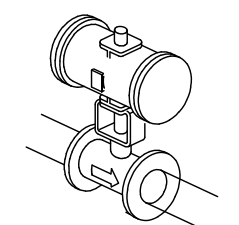
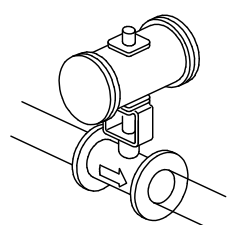
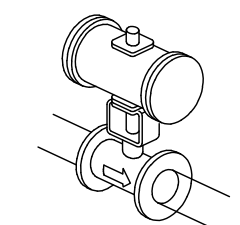
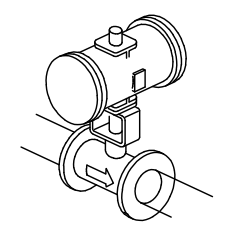
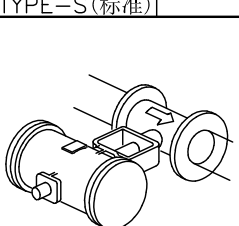
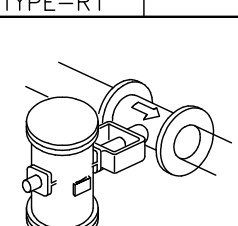
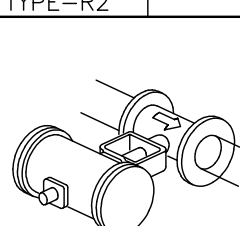
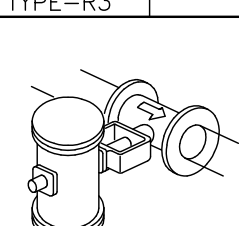
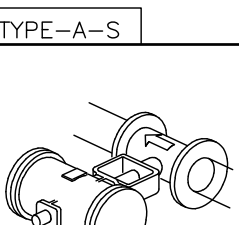
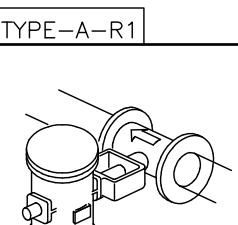
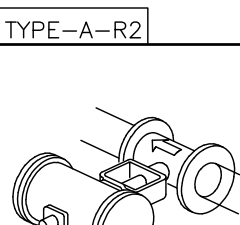
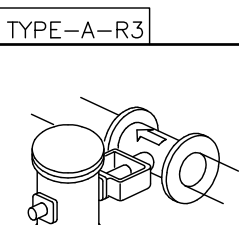
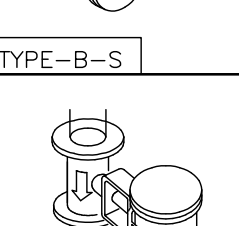
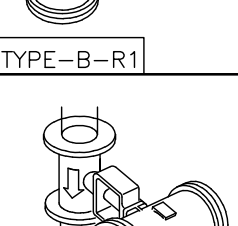
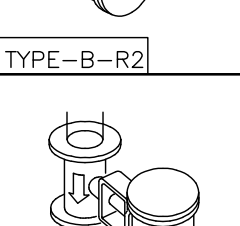
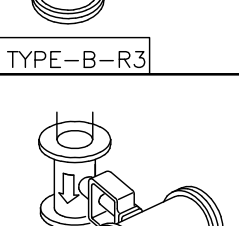
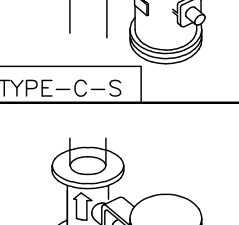
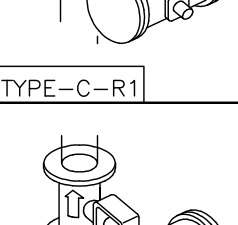
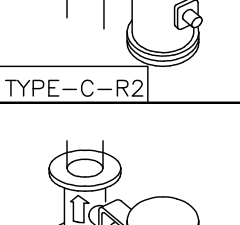
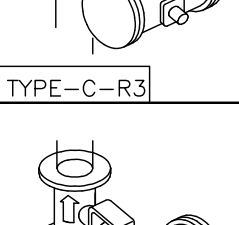
Type S is automatically applied, unless otherwise specified.

REV.	<b>KOSO</b>
A	

# 7300RB 安装方位

## MOUNTING FROM

7300RB-N

			
TYPE-S (标准)	TYPE-R1	TYPE-R2	TYPE-R3
			
TYPE-A-S	TYPE-A-R1	TYPE-A-R2	TYPE-A-R3
			
TYPE-B-S	TYPE-B-R1	TYPE-B-R2	TYPE-B-R3
			
TYPE-C-S	TYPE-C-R1	TYPE-C-R2	TYPE-C-R3
			
TYPE-D-S	TYPE-D-R1	TYPE-D-R2	TYPE-D-R3

备注

Remarks

阀门不能颠倒安装。

Please do not mount the valve unit upside down.

⇒ 箭头表示流体方向。

⇒ Indicates the flow direction.

安装位置为非标准时，请指定安装位置形式 (TYPE)。

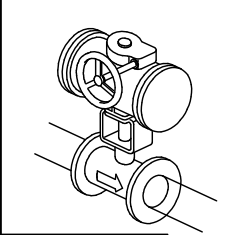
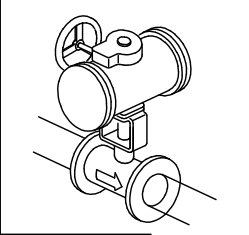
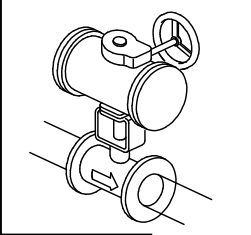
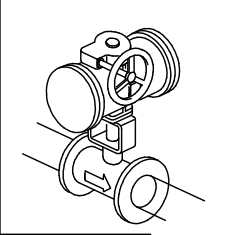
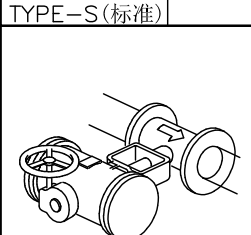
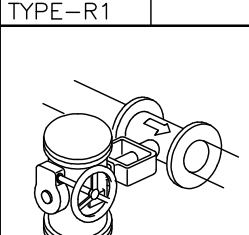
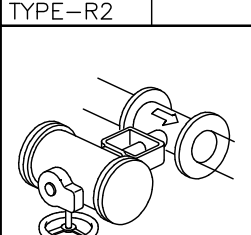
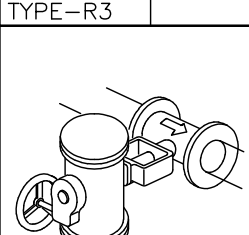
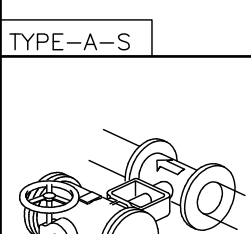
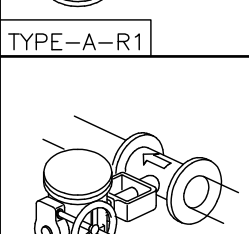
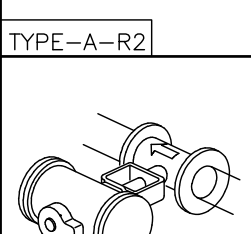
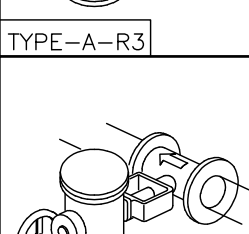
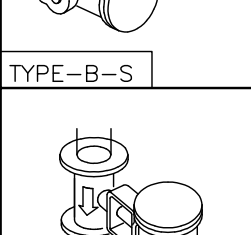
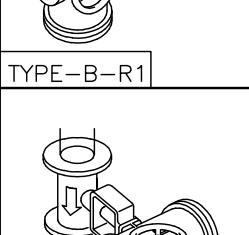
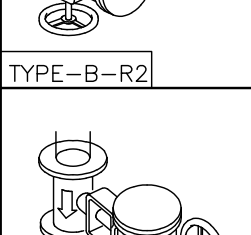
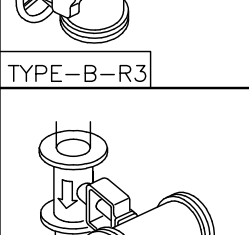
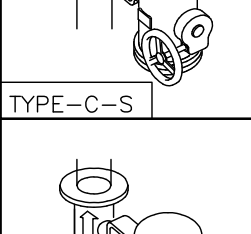
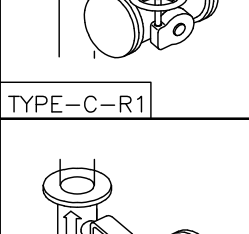
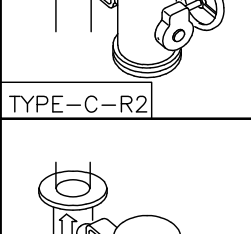
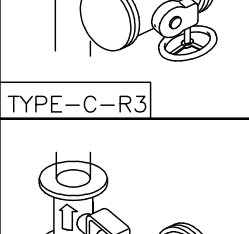
Type S is automatically applied, unless otherwise specified.

REV.	<b>KOSO</b>
A	

# 7300RB 安装方位

## MOUNTING FROM

7300RB-H

			
TYPE-S(标准)	TYPE-R1	TYPE-R2	TYPE-R3
			
TYPE-A-S	TYPE-A-R1	TYPE-A-R2	TYPE-A-R3
			
TYPE-B-S	TYPE-B-R1	TYPE-B-R2	TYPE-B-R3
			
TYPE-C-S	TYPE-C-R1	TYPE-C-R2	TYPE-C-R3
			
TYPE-D-S	TYPE-D-R1	TYPE-D-R2	TYPE-D-R3

备 注

Remarks

阀门不能颠倒安装。

Please do not mount the valve unit upside down.

⇒ 箭头表示流体方向。

⇒ Indicates the flow direction.

安装位置为非标准时，请指定安装位置形式（TYPE）。

Type S is automatically applied, unless otherwise specified.

REV.
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**KOSO**

附表二

KOSO 控制阀公称压力对照表

公称压力等级代号	L 级	M 级	H 级			
美国标准	ANSI 150#	ANSI 300#	ANSI 600#	ANSI 900#	ANSI 1500#	ANSI 2500#
日本标准	JIS 10K	JIS 20K、JIS 30K	JIS 40K	JIS 63K		
中国标准	PN 16	PN 40	PN 63、PN 100			

注：由于各国标准在公称压力定义时选择的温度基准不同，表中相同等级只是近似的，因此，各标准的公称压力下的温度·压力使用范围请参照相应的标准。

附表三

KOSO 控制阀阀体常用材质对照表

美国标准	A216-WCB	A351-CF8	A351-CF8M	A217-WC6	A217-C5	A352-LCB
日本标准	SCPH2	SCS13A	SCS14A	SCPH21	SCPH61	SCPL1
中国标准	ZG230-450	ZG0Cr18Ni9	ZG0Cr18Ni12Mo2Ti			
备 注	成份同 ZG25	成份同 304SS	成份同 316SS	一般不推荐使用	一般不推荐使用	一般不推荐使用